je Kining Fournal,

No. 1631.—Vol. XXXVI.

LONDON, SATURDAY, NOVEMBER 24, 1866.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

STAMPED ...SIXPENCE.

Mining Exchange, London.

MINING EXCHANGE, LONDON.—As the rules of the Mining Exchange PROHIBIT all its MEMBERS from ADVERTISING SHARES at FIXED PRICES, the Committee feel it their duty to polify that they have no means of offering redress to such of the public as may eal with those advertising shares at fixed prices.

A List of the Members can be had on application to the Secretary.

MR. JAMES CROFTS, STOCK AND SHAREBROKER,
No. 1, FINCH LANE, CORNHILL.
(Established 23 years.)

PRINCE OF WALES.—Evidences of a great mine accumulate rapidly and disincity, and consequently all opinions now point to a great success, as will be
ean by reports in the present Journal. The shares have become the most proninent item of the market, for dealing, speculation, or investment, but at
the present price they have not advanced to one-half their prospective value.
IT. CHOFTS solicits orders for cash, and immediate delivery.
HOLDERS of mining shares DIFFICULT OF SALE in the OPEN MARKET may
ind purchasers for the same through Mr. CROFTS' agency. Also parties requiring ADVICE how to act in the DisPOSAL or ABANDONMENT of doubtful mining
secks may profitably avail of Mr. CROFTS' long experience on the market in all
sees of doubt or difficulty, legal or otherwise.

*** Mr. CROFTS is prepared to advise on purchases or sales of Chop tales shares.

Bankers: National Bank of Scotland, Finch-lane.

Bankers: National Bank of Scotland, Finch-lane.

MR. WILLIAM LANE, No. 44, THREADNEEDLE STREET, LONDON, E.C., STOCK AND SHAREDEALER, has FOR SALE the fillowing SHARES:—
10 Bottle Hill, 4s. p Chontales, £2. 10 Eliford, £6½. 10 East Russell, £3¼. 10 East Russell, £3¼. 20 East Caradon, £5½. 10 North Crofty, £2 6 3. 10 East Lovell, £9 175 6d. 50 North Downs, 6s. 20 East Caradon, £5½. 175 60 No. Lrasey, 26s. 3d. 20 East Caradon, £5½. 175 60 No. Lrasey, 26s. 3d. 20 East Caradon, £5½. 175 60 No. Lrasey, 26s. 3d. 20 East Caradon, £5½. 175 60 No. Lrasey, 26s. 3d. 20 Hordon, £8½. 100 Gwdyr Park, 1s. 6d. 20 Control, £8½. 100 Gwdyr Park, 1s. 6d. 20 Control, £8½. 100 Gwdyr Park, 1s. 6d. 20 Control, £1½. 20 East Caradon, £5½. 20 E

MR. LELEAN, ENGLISH AND FOREIGN STOCK AND

SHAREDEALER,
11, ROYAL EXCHANGE, LONDON, E.C.
Bankers: Robarts, Lubbock, and Co., Lombard-street

CUIDE TO INVESTORS.—MR. LELEAN'S STOCK, SHARE,
AND FINANCE REGISTER for November contains the fourth of a series
of articles on the whole circle of Investments—British and Foreign Stocks and
Leans, Bank and Finance, Railway and Insurance, Gas and Water, 4nd Manufacturing and Commercial Shares; with such other information as is necessary
toguide intending investors amidst the shoals and quicksands of the multifarious
species of investments that now present themselves; and a tabulated statement
of the dividends paid during the last five years in Rogitish and American Railways. Published by Pottle and Son, 14 and 15, Royal Exchange, London, E.C.
Price 6d., or 5s. annually.

CARNARVONSHIRE CONSOLS (LIMITED), AND SHARES FULLY PAID.—MR. LELEAN recommends the immediate purchase of these shares, now quoted ½ to ½ prem.—11, Royal Exchange, E.C.

NOTICE OF REMOVAL.—MCNEILL and LONG have REMOVED from 7, Pope's Head-alley, Lombard-street, to 31, THREAD-NEEDLE STREET, LONDON, E.C.

MESSRS. WILSON, WARD, AND CO., STOCK AND SHAREDEALERS.

16, UNION COURT, OLD BROAD STREET, LONDON, E.C. Can recommend two good mines for investment.

Car recommend two good mines for investment.

CEORGE RICE, SHAREDEALER, 78, OLD BROAD STREET, LONDON, E.C., (24 years' experience), Member of the Mining Exchange), DEALES in MINING SHARES at close market prices of the day, either as BUYER or SELLER, for cash or account.

GEORGE RICE has during the past week visited several of the principal mines in Cornwall and Devon, and can furnish valuable and reliable information to speculators and shareholders, particularly as to the following mines:—
Caradon Consols.

East Russell. Prince of Wales.
Chiverton Moor, Great Vor. West Caradon.
Chiverton Moor, Great Vor. West Caradon.
East Basset.
East Grenville. Marke Valley. Wheal Grenville.
Marke Valley. Wheal Grenville.
Morth Treskerby. Wheal Crebor.
Money advanced on mining shares.

Bankers: Bank of England.

CHONTALES GOLD MINES (LIMITED).—GEORGE RICE deals largely in these shares, as BUYER or SELLER, at close market prices, and being in possession of most important information as to the prospects of the mines and market, can well advise both speculators and holders of these marks when to sell or buy to their advantage.—Nov. 23, 1866.

EORGE RICE recommends the purchase of WHEAL CREBOR, selling at 10s. per share, or £3000 for the mine. PRINCE OF WALES, in sme district, is now selling for 25s. per share, or about \$17,500 for the mine. George Rice recommends the purchase of WHEAL GRENVILLE, selling for £1 2s, 6d. per share, or £6730 for the entire mine. East Lovell., a similar tim sinc, now stands at £10 per share, or £19,600 for the mine.—Nov. 29, 1866.

MR. G. D. SANDY, STOCK AND SHAREDEALER,
No. 48, THREADNEEDLE STREET, LONDON, E.C., TRANSACTS
BUSINESS IN EVERY DESCRIPTION OF STOCK EXCHANGE SECURITIES,
MINING and FINANCIAL ENTERPRISES, at close market prices,
BUYER of East Bottle Hill shares. Sellers state number and lowest price.
Correct Daily Price List may be had on application.
Money advanced to any amount on legitimate stocks and shares.
References exchanged.

M. R. G. D. SANDY'S MONTHLY INVESTMENT CIRCULAR—SPECIAL NOTICE.—Vide all hitherto published. 48, Threadneedle-street, London, E.C., Nov. 23, 1866.

MR. EDWARD BREWIS is a BUYER or SELLER, for Cash or Account, or for dealings end of the Year 1886, end of March, June, or

West Chiverton.
South Condurrow.
East Bottle Hill.
South Condurrow.
East Lovell.
Frontino and Bolivia
Grenville.
Wanted Condurrow.
East Grenville.
Wanted Condurrow.
East Russell.
Wanted Condurrow.
East Russell.
East Russell.
Frontino and Bolivia
Sorth Crofty.
East Russell.
East Russell.
East Russell.
East Russell.
Eart Rus

POR SALE, the following shares at nett prices:—20 Great South Tolgus, 15s.; 40 North Dolcoath, 4s. 6d.; 25 Prince of Wales, 25s.; 20 South Callington, 40s.; 10 North Treskerby, £3¼; 10 Westminster Lead. £5; 40 Sew Lovell, 7s.; 10 Rose and Chiverton United; 50 South Condurrow, 12s. 6d. 80 Wheal Crebor, 13s.; 10 West Caradon, £14; 15 East Cara Brea, £2½; 20 Leeds 2nd St. Aubra.

Aubyn.
pply to Mr. R. Emenson, 28, Great Winchester-street, London, E.C.
Advice given on the sale and purchase of shares.
Eighteen years' experience in Cornwall and twelve in London.

MR. GEORGE BUDGE, No. 4, ROYAL EXCHANGE BULDINGS, LONDON, E.C. (Established 18 years), has FOR SALE:—
50 Wheal Agar; 40 Frank Mills; 5 Grambler; 100 Gwydyr Park; 3 Minera; 70
East Rosewarne; 25 South Darren; 100 Gothie; 35 Great North Downs; 50 Peslarens Gold; 50 Quebrada; 200 Anglo-Brazillan; 50 Yudanamutana; 40 Don
Pedro; 30 Grenyille; 60 Great Retaliack; 10 Caradon Consols; 100 Bottle Hill;
20 North Crofty; 10 East Carn Brea; 100 Mineral Rights; 10 East Russell; 50
Grat South Tolgus; 30 Crebor; 2 East Basset; 1 Deron Great Consols; 22 Prince
Wales; 1 Wheal Seton; 2 Providence; 6 St. John del Rey.
Parties desirous of purchasing any of the above shares will please state numier and paice.

ORNISH AND DEVON MINES:—PETER WATSON'S
"WEEKLY CIRCULAR," No. 398, Vol. VIII., of yesterday (Friday,
Nov. 23), price 6d. each copy, contains important information on the following

nines:— West Caradon. East Lovell. North Wheal Crofty. Chiverton.

East Providence. Wheal Chiverton. Stray Park. Dolcoath. North Treskerby. Cook's Kitchen. Grambler & St. Aubyn Great East Lovell.

With Special Remarks on Mining Shares as an Investment for Capital.
79, Old Broad-street, London, E.C.

THE LONDON DAILY RECORD—STOCK AND SHARE LIST.—MR. PETER WATSON begs to call particular attention to the fact that nearly all the afternon or evening London newspapers contain the prices of stocks and shares up to about One o'clock only (on same day as published), instead of Four to Five o'clock. The difficulties which shareholders and the investing public have encountered in seeking for correct and latest daily prices induced him, three months ago, at the suggestion of several of his friends and customers, to publish every evening "The London Daily Record—Stock and Share List," which is ready at about Half-pase Five o'clock, and delivered to subscribers in and around London the same evening. It is posted in time for the same evening's mail to country subscribers, who are thus enabled to get the latest prices some eight or ten hours earlier than they formerly had the means of doing. The importance of this at the present anxious moment must be obvious to all, as the daily fluctuations in prices of railway stocks, banks, financial, and other shares are sometimes very great.

It is his constant endeavour to convey the best and most reliable information (derived from authentic sources), and to give the latest actual marketable prices of buyers and sellers. Every person, therefore, interested in stocks and shares will find it to their interest to subscribe to the "London Daily Record—Stock and Share List." Those who desire to have it sent to them regularly every evening, will please sign the annexed form, and forward to Mr. Peter Watson, 79, Old Broad-street, London, E.O.

Annual subscription, £1 is.; by post, £2 5s. Monthly subscription, by post, 4s. Slingle copy, 1d.; by post, 2d. ——

THE LONDON DAILY RECORD—STOCK AND SHARE LIST.

Please put my name down as a subscriber to the above Daily List, and forward the same to me. for **.

Please put my name down as a subscriber to the above Daily List, and for ard the same to me, for*

Name
Address.

Date.....*

* Here insert weeks or months.

To Mr. Peter Watson, 79, Old Broad-street, London, E.C.

MR. EDWARD COOKE, STOCK AND SHAREDEALER,
Has SPECIAL BUSINESS in Chontaies, Prince of Wales, East Lovell, Frank
Mills, South Darren, and West Caradon.
Shares either for cash or fortnightly settlements.
Stock Exchange securities dealt in at close market prices.
Satisfactory references given in any town in the United Kiugdom.
Bankers: Alliance Bank.

M. R. C. A. POWELL, SHAREDEALER, 78, OLD BROAD STREET, LONDON, E.C., and MINING EXCHANGE, LONDON. In my advertisement last week respecting CALDBECK FRLLS, I regret that in error the amount £950 should have been put instead of £850. The actual figures being 67 tons, realising 86%, 16s.

Bankers: Bank of England.

JOHN RISLEY, 32, LOMBARD STREET, and MINING EXCHANGE, LONDON, E.C., has SPECIAL BUSINESS in East Grenville, Wheal Buller, and West Caradon shares.

MESSRS. McNEILL AND LONG, STOCK, SHARE, AND MINING DEALERS,
51, THREADNEEDLE STREET, LONDON, E.C.

MR. WILLIAM SEWARD, STOCK AND SHAREDEALER,
19, THROGMORTON STREET, LONDON, E.C.

R. E. GOMPERS, STOCK AND SHAREDEALER, 3, CROWN COURT, THREADNEEDLE STREET, LONDON.

MR. T. ROSEWARNE, 81, OLD BROAD STREET, LONDON.

LONDON, E.C., is a DEALER in the FOLLOWING SHARES, for Devon Consols,

West Chiverton.

West Caradon.

Herodsfoot.

Wheal Seton.

West Seton.
Wheal Seton.
Clifford.
East Lovell.
Great North Downs.
Bank of New Zealand.
Union of Australia.
Union of London.
Canadian Loan and Ga

Herodsfoot.

Marke Valley.

South Caradon,
Chiverton.

Gawton.

Caradon Consols.

Gawton.

Cararvonshire.

South Callington,
Wheal Crebor.

Bank of New Zealand.

Wheal Crebor.

Bank of New Zealand.

Union of Australia.

Union of Australia.

Union of Australia.

Union of Australia.

Canadon Consols.

Caradon Consols.

Cararvonshire.

Union of London.

Canadalan Loan and Genliche Consols.

Bank of Victoria.

Bank of Australiasia.

PRINCE OF WALES.—I find they have cut another cross-course in the 45 east, which looks well for a course of ore to the east of the cross-course. I say to all my friends double your interest at the present price, 25s.

An Offer Wanted Counsister.

BuyER of New Tarara at 17s. 64

d Gunnislake.

BUYER of New Tamar at 17s. 6d.

Bankers: Bank of England, and Consolidated.

MR. JAMES HUME, 74, OLD BROAD STREET LONDON, E.C. (Member of the Mining Exchange), Executes orders in mining shares at nett prices, equivalent to 1½ per cent. commission, and Stock Exchange securities at the usual charge. All communications punctually attended to, and cash sent on receipt of transfer. Bankers: The London Joint Stock Bank.

M R. JOHN BATTERS, STOCK AND MINING SHAREBROKER, 13, THROGMORTON STREET, LONDON, E.C.

R. JOHN LITT TLE

STOCK AND SHAREDEALER,

77, OLD BROAD STREET, LONDON, E.C. (late of Redruth).

Immediate attention to orders by telegraph or letter.

Prompt cash settlements.

WILLIAM MICHELL has FOR SALE the following
MINE SHARES:—
200 Chontales, 3 Buller, 15 Marke Valley, 50 Grenville, 100 East Grenville, 20 North Crotty,
"W.J." (Salop),—New Tamar is, I believe, contiguous to the once substantial

"W. J." (Salop).—New Tamar is, I believe, contiguous to the once celebrated South Tamar and Tamar Consols, which, in their day, made very large profits; the latter was the deepest worked lead mine in Cornwall of Dewon. I have seen some fine specimens of ore from the New Tamar, which is exceedingly rich in silver. It is in virgin ground, and I should look upon it as a more than average speculation. The price of shares is about 20s. each, at which you may, perhaps, be able to obtain a limited number.

"A Dup" (Stratford)—W.—L.G.—E.—No one would dream of giving away shares that he could sell at £11½ or £12; but, as you say, had you done so at the time, you would have been just as well off as you have been to hold, as the calls made since are quite equal to the present market price. If you were induced to buy on the report in a particular article in the paper, all I can say is take care and not be bitten by the same dog again.

Apply to 42, Cornhill, London, E.C.

Apply to 42, Cornnill, London, E.C.

INVESTMENT, LOAN, AND BANK AGENCY,—

Established 1839.

BANKERS—London and County Bank.

This Agency undertakes the investment of Capital in British and Foreign Government Stocks and Joint-stock Companies upon advantageous terms.

It is notorious that market prices are in many instances ruled by the operations of speculators, and those who are interested in the maintenance of factitious values; therefore, this Agency makes it a speciality to detach, as far as practicable, bond fide prices as separated from market prices, with the view to select sound securities, which upon reliable data may be appreciated as the most likely to specifyl and substantially improve in value.

Every information afforded to Capitalists, Trustees, and others, who seek investments of a strictly safe and eligible character.

Loans granted on Stocks and Shares having a market value, interest allowed upon deposits, and every description of Bank and Money Agency business transacted.

No. 12, Clament's-lane, Lombard-street, London, E.C.

cted. CHARLES PETERS, Sec.
No. 12, Clement's-lane, Lombard-street, London, E.C.

SALE OF MINING SHARES BY PUBLIC AUCTION. MR. CHARLES THOMAS WILL SELL, at the London
Tavern, Bishopsgate-street, on Wednesday, the 28th of November, at
One o'clock precisely, the FOLLOWING, with other SHARES:—
5 Buller.
4 Cara Brea.
25 Great South Tolgus.
30 South Darren.
60 West Kitto.
10 East Carn Brea.
Persons desirous of purchasing any of the above shares previously to the day
of sale can, in most instances, do so on application to the auctioneer, with postity of offer.

sitive offer.
Particulars and conditions of sale may be had at the offices of the auctioneer, No. 3, Great St. Helens, London, E.C., and at the MINING JOURNAL office, 26, Fleet-street, London, E.C.

M R. CHARLES THOMAS is a BUYER of East Seton, West Wheal Kitty, West Godolphin.—No. 3, Great St. Helen's, London,

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHAREDEALER, UNION CHAMBERS, UNION COURT, OLD BROAD STREET, LONDON, E.C.

MESSRS. LANE AND GIBBS, 2, ROYAL EXCHANGE, LONDON, E.C., STOCK AND SHAREDEALERS, AND FINANCIAL AGENTS, transact business in all kinds of securities at closest nett prices for

cash or account.

Parties of respectability can have transfers registered in their names previous to payment.

Daily price list on application.

Bankers: London and County Bank.

ESTABLISHED 1852.

ESTABLISHED 1822.

S A F E INVESTMENTS FOR CAPITAL,
Paying 10 to 20 per cent. per annum in dividends.
SHAREHOLDERS, CAPITALISTS, and INTENDING INVESTORS
Should at all times consult
SHARP'S GENERAL INVESTMENT CIRCULAR
(Gratis and post free).
It is a SAFE RELIABLE GUIDE, containing valuable information. It also
gives the market prices of stocks and shares of "every" description, the amount
of dividends given in every undertaking and company, and when paid.

Rest Laxey.

Taylognas given in every undertaking and company, and when paid.

Wheal Business, at CLOSE Market Prices, in the following:—
Wheal Crebor.

Wheal Crebor.

Wheal Grenville.

Wheal Grenville.

Wheal Grenville.

Wheal Grenville.

Wheal Seton.

Set John del Rey. HENRY GOULD SHARP, 32, POULTRY, LONDON, E.C. Bankers: London and Westminster, Lothbury, E.C.

EAST SETON MINE.-WANTED TO BUY, 10 shares. WARD.

. W I L L I A M W A
STOCK AND SHAREDEALER,
No. 29, THREADNEEDLE STREET, LONDON, E.C.

MATTHEW GREENE, STOCK AND SHAREDEALER,
ST. MICHAEL'S HOUSE, CORNHILL, LONDON, E.C.
MATTHEW GREENE IS always profited to deal at close next prices in every
description of Stock Exchange secontries.
NEW CLIFFORD, NEW TAMAR, and WESTMINSTER Mining Shares specially
recommended.

recommended.

MATTHEW GREENE is a BUYER of any part of 200 New TAMER at 18s. 9d. per share for cash.

Bankers: Imperial Bank.

| MATTHEW GRENE IS & BU & R & G & Buy Parcel & Bankers : Imperial Bank. | March & Color & Colo

Bankers: London and Westminster, Lothbury.

MR. J. B. REYNOLDS, 70 and 71, BISHOPSGATE STREET WITHIN, LONDON, E.C.

Business transacted in British and Foreign Stocks, Railway, Bank, Insurance, Financial or Mining Companies Shares, and all Miscellaneous Securities, at the lowest market quotations. Exchanges effected, and purchasers found for shares not generally marketable.

Mr. REYNOLDS is prepared to deal for cash in—Westminster Mines.

Gothic.

Cradon Consols.

Wheal Agar.

Swell as all market mines.

As well as all market mines.

Mr. REYNOLDS is prepared to deal for each in—
Westminster Mines. Gothic. Rose & Chiverton Utd.
Chontales Gold. Crebor. West Caradon.
Caradon Consols. Wheal Agar.
As well as all market mines.
Mr. REYNOLDS does not advertises thares at fixed prices, but is prepared, neverheless, to deal on as favourable terms as those who do.—Nov. 23, 1866.

REYNOLDS'S CIRCULAR FOR NOVEMBER,—
Applications for this will be received during the coming week, and all INVESTORS in BRITISH MINES and other stocks should procure a copy.
OPINIONS OF THE PRESS.
The following extract is from the Investor's Guardian:—
"We have received a copy of 'Reynolds's Investment Circular,' which contains much information that is valuable to the investor. It contains references to the principal railways, banks, insurance, mining, and miscellaneous companies, and some interesting statistics concerning the past and present state of the metal market."

market."
The above "Circular" will be forwarded gratis, on application to Mr. J. B. REYNOLDS, 70 and 71, Bishopsgate-street Within, London, E.C. November 23, 1866.

November 23, 1866.

BARTLETT AND CHAPMAN, STOCK AND SHAREDEALE'S, 2, BUCKLERSBURY, LONDON, E.C.
Business transacted in every description of stocks and shares at lowest prices, free of commission.

CHEAP SPECULATIONS.

BARTLETT and CHAPMAN call the attention of capitalists to the following mines, which are now selling at ridiculous low prices, whilst the prospect of early profits are unusually great.

ROSEWANE CONSOLS, in 3973 shares, situated in one of the best districts for copper in Cornwall. It has been worked for several years, during which large quantities of ore have been returned, the present sales being about 30 tons of rich ore every month. Here is a mine selling from 2s. 6d. to 10s., whilst the machinery and plant on the property is worth more money, independent of the chance of a great improvement taking place within the mass four months.

EAST CHIVERTON, in 4000 shares, adjoins Wheal "hiverton, and has the same lodes passing through the sett During the past 1, onth the mine has greatly improved. The prospects of a speedy improvement, and the amount of work already done, warrant these shares being at least £5 each, now obtainable at £2.

EAST PROVIDENCE. In 2896 shares, joins the celebrated Providence Mines.

earlieady done, warrant these shares being at least £5 each, now obtainable at £2.

EAST PROVIDENCE, in 3936 shares, joins the celebrated Providence Mines. The mine is looking exceedingly well, and in about six months will show a good profit on the working. They are now returning about 12 tons of rich tin every consistent exceedingly well, and in about six months will show a good profit on the working. They are now returning about 12 tons of rich tin every consistent exceeding the property to its quarter. Upwards of £24,000 has been expended in bringing the property to its quarter. There are two engines, and all necessary surface and underground machinery, in efficient working order, yet this mine is selling for £1 per share, worth at least £5.

GREAT SOUTH CHIVERTON, in 6000 shares, joins West Chiverton, Wheal Chiverton, Chiverton Moor, and South Chiverton, having parallel lodes to those of West Chiverton. All surface machinery and buildings erected. The mine is just now getting into ore ground. Lead, copper, and blende have been discovered at the 20 (samples of which can be seen at the office). There has been aiready expended upwards of £3000, whilst the shares can be secured at about 7s. 6d. each, and should be bought at once. Whilst properties of such intrinsic value as these can be obtained at such nominal prices, investors will do well to embark their capital in them, and we feel assured that in advocating their purchase larger profits will be realised than investing in undertakings which are now selling for double their real value.

All communications will receive immediate attention, either personally or by letter.—No. 2, Bucklesbury, London, E.C., Nov. 23, 1886.

Bankers: London and Westminste

Oniginal Connespondence.

THE UTILISATION OF SODIUM IN GOLD AND SILVER AMALGAMATION.

AMALGAMATION.

SIB,—I note in the San Francisco Mining and Scientific Press, of Oct. 6, some exceptions taken by Mr. G. Kustel to portions of my communication to the American Association at its recent Buffalo meeting. On referring to the preceding number of that valuable journal, I find that the substantial part of my Buffalo paper was not before Mr. Kustel, the article copied consisting of but a few of the concluding paragraphs of my article. Presuming that the more complete abstract, prepared by myself for some of our American mining periodicals, will probably find its way into the Mining Journal, I shall assume, in my rejoinder to Mr. Kustel, that your readers have the case presented to them in its entirety.

It appears that, although Mr. Kustel has before admitted, and now again repeats, that the use of sodium amalgam is beneficial in gold.

again repeats, that the use of sodium amalgam is beneficial in gold amalgamation (which can only be understood as a concession of all I claim—that sodium exalts the adhesion between quicksilver and I claim—that sodium exalts the adhesion between quicksilver and the precious metals, and prevents the flaming of amalgams of the latter) he still strangely insists that it can act only by decomposing silverores chemically, according to its long-known and familiar power of removing most of the metalloids from their argentic compounds. I must reiterate what I supposed I had clearly enough expressed in my specifications, published months since, that I do not contemplate interfering with the reducing agents (iron, &c.) now in use; but that my discovery consists in greatly accelerating and intensifying their action by adding a minute quantity of sodium.

I recommend to Mr. Kustel and to other practical metallurgists (all, of course, familiar with the tardy and tedious action of iron on moist chloride of silver) to bray together in a mortar some iron filings, quicksilver, and precipitated chloride of silver, adding, meanwhile, a small quantity of sodium amalgam, the sodium in which, however,

quicksilver, and precipitated chioride of silver, adding, meanwhile, a small quantity of sodium amalgam, the sodium in which, however, may be but a small fraction of that equivalent to the chloride. The almost instantaneous result will be a mass of pasty or nearly solid silver amalgam. If such phenomena as this are to be ignored, or poohpoohed, as signifying nothing, and having no bearing on the working of silver ores, I have but to submit respectfully that this seems like carrying an assumption of practicality (!), and an affectation of contempt for science considerably beyond the limits of common sense. The above little experiment will serve for the present, to exsense. The above little experiment will serve, for the present, to exemplify and illustrate the mode in which the exalted adhesion and more intimate contact produced by sodium enhances and quickens voltaic and chemical reactions between metallic substances. This is the first of the discoveries upon which my new methods are based; and the second depends simply upon the correlated principle that metallic cohesion, as well as adhesion—that is, attraction between homogeneous as well as heterogeneous surfaces—is at the same time exalted by sodium, whence it arises that floured and pasty precious amalgams, which incorporate together with difficulty, and only on application of mechanical force, coalesce spontaneously and with avidity, when quicksilver, containing a minute quantity of sodium (or, as I have been somewhat ridiculed by Mr. Kustel for expressing it, in the "magnetic" condition), has been added thereto. It is on voltaic and chemical reactions between metallic substances. (or, as I have been somewhat reactaled by Mr. Rustel for expressing it, in the "magnetic" condition), has been added thereto. It is on this ground that I have recommended the use of sodium in separating and collecting diffused silver amalgam from a slime or pulp. Mr. Kustel's brief comment on this, that "this may be so," seems hard to reconcile with his belief, expressed in another paragraph, that sodium must "cause a greater loss of quicksilver, by rendering the latter liable to be ground to flour." I fully agree with him that "silver amalgam is not silver ore," though unable to see clearly the bearing of the observation.

the observation.

Mr. Kustel adheres still, also, to his preconceived idea that iron pans will have to be eschewed in all operations with sodium amalgam; his reason, as I understand it, being the "local" voltaic action which may set in upon mutual contact of iron, sodium amalgam, and water, which theoretically should soon remove all the sodium. I have, nevertheless, before pointed out, as the result of my own experiments, that when the iron becomes infilmed by the amalgam this "local action," as in the case of the zinc of an ordinary voltaic couple, is greatly retarded. With some kinds of iron it becomes almost nil. I wish now, however, to show conclusively that this objection is a "bugbear." A moment's thought would show anyone skilled in the art that the mullers of the pan should keep the quicksilver so diffused in globules throughout the slime that no contact of consequence with in globules throughout the slime that no contact of consequence with the iron can occur When such diffusion does not take place it merely

argues imperfect manipulation.

The most that can be made of this objection of Mr. Kustel is a suggestion that the mullers be of *stone*, or some material other than iron. My results, nevertheless, are to the effect that the amount of sodium requisite to produce a very marked benefit falls much below that which is requisite to engender the voltaic action upon surfaces

of cast. iron, which Mr. Kustel deems so very objectionable.

I have to complain of Mr. Kustel's apparent insinuation that I have fallen into a common method of "putting the cart before the horse," by trying to force the results of experiment into accordance with a preconceived "idea." I claim that the ideas I have promulgated are solidly founded upon experiment, and still maintain that Mr. Kustel's assumption, that sedium may only be used on silver creations. Kustel's assumption, that sodium may only be used on silver ores as a decomposing agent, and that, therefore, it is necessary, also, to go to the extreme of decomposing the ores of the baser metals, thus go to the extreme of decomposing the ores of the baser metals, thus contaminating and flouring the quicksilver; and his other assumption, that the iron walls of a pan necessarily neutralise and destroy the efficiency of sodium under all circumstances, and his experiments based thereon, as reported, have no real applicability to the case, as I said in my Buffalo paper. I believe that, apart from the "self-confidence" of which Mr. Kustel (if I apprehend him) accuses me, I can appeal to the facts set before your readers to sustain those alsums.

I also claim that Mr. Kustel's opinion, that sodium is "too expen-I also claim that Mr. Kustel's opinion, that sodium is "too expensive" to be applicable as I propose, is untenable in the extreme. As a reductive ad absurdum, let us suppose that it were necessary, as he believes, in the translation to amalgam of the silver in an ore (the chloride, for instance) to use an equivalent quantity of sodium; then, as I lb. avoirdupois of sodium is equivalent to 4.7 lbs. of silver, or about 75 ozs., worth at \$1.29 per oz. \$96.75, it is necessary to show cause why the cost of sodium must approach this latter sum (in coin) per lb., to prove its use even for "decomposing" chloride of silver unprofitable, and to give any currency to this "idea" of Mr. Kustel's. I fear it may be necessary for me to add here distinctly, that these calculations are intended only as illustrative; else I might be accused of advocating and justifying the direct use of sodium as a reducing agent in silver metallurgy, the time for which has not yet come.—Broadway, New York, Nov. 1.

HENRY WURTZ.

Abstract of a Paper on "The Utilisation of Sodium in Gold and Silver Amalgamation," read before the American Association for the Ad-vancement of Science, by Prof. Henry Wurtz, of New York City

rancement of Science, by Prof. HENRY WURTZ, of New York City
Very much discussion has been going on for about a year past, arising out of
my recently-announced discovery of the extraordinary effect of the alkali metals
in amaignation. Confirmations of my results from the most reliable sources
have appeared abundantly, as well as various criticisms, objections, and even
what are represented as negative results. I desire to present a very concise
statement of the progress of these things, believing the association will not fail
to be interested in a subject having such vital relations at present to the prosperity of our country as the successful saving of gold and silver. Prof. B. Silliman reported last January, at the meeting of the National Academy of Science
at Washington, the first actual working results with sodium made public in this
country, although it seems that the new method, divulged to divers persons
several years since, had already been actually adopted during the year previous
in Wales, California, and elsewhere—the value of the discovery being so easily
tested and so obvious that heralding and puffery were not needed to bring it into
notice. The communication of Prof. Silliman was extensively copied, and is
referred to now to introduce a continuation of his experiments in another form.
In order to ascertain whether the assays of the tailings after amaignmatton
would give confirmatory results. The following report from Dr Torrey to Prof.
B. Silliman is introduced as embodying such results—
"New York, Jan. 28.—We send you the results of our assay of the 'tailings'
which you transmitted to us; they were marked 'Tailings from ore of Auction
and Texas Lode, 'which assayed gold \$230. After amaignmation with sodium
quicksilver, they assayed—Gold, per ton, \$67.83; silver, per ton, \$1.45.—John
Torrext And Son."

It, will be found on reference to Prof. Silliman's report that the overalluded

Torrey and son."

It will be found on reference to Prof. Silliman's report that the ore alluded to was one from which the ordinary mode of amalgamation produced but from 27 to 60 per cent. of the assay, whilst my method produced from 80 to 85 per cent. The following is a letter from Prof. Silliman to Prof. Henry Wurtz, re-

lating to trials on a working scale, instituted under his advice and direction at some mills in the Pacific States :—

"New Haven, Feb. 26.—I have received advices, under date of Jan. 17 and 21 from Dr. Fisher, in Grass Valley, California, the gentleman I requested to put the test your new methods of amalgamating gold ores with quicksiver contain ga sodium, and find therein the following passages bearing upon your invention. Under date Jan. 17.—'Upon applying No. 1 amalgam directly to the clear couper plates, they amalgamatic easily and restrict that reacting better has no when

couper places, they amangames and a service. As a lawleed you in my last, the Burchal you could in the ordinary manner. As I advised you in my last, the Burchal you could in the ordinary manner. As I advised you in my last, the Burchal you could be a law or the place of the pla ject would inevitably be defeated, as the quicksliver would then become loaded with the baser metals and other impurities, which would destroy its amalgamating power altogether. This is evidently what has actually taken place in some experiments on silver ores which Kust it reports in the San Francisco Mining Press of March 31, in which he obtained with sodium but one-third as much silver with a given ore as without it. Kustel' sresults, therefore, having been counded upon an incorrect idea of the mode of employment of the sodium, have no applicability either proor con. Kustel' statement that contact with iron 'highly increases the rapidity of the decomposition of water by sodium amaigam' is at variance with my own observations, which have generally tended to precisely the opposite conclusion; and his inference therefrom that iron pans, therefore, cannot be used with sodium, is shown to be failacious by numerous practical results on record.

the opposite conclusion; and his interence therefrom that from pair, therefore, cannot be used with sodium, is shown to be failactous by numerous practical results on record.

Another fanciful objection of Kustel is "amalgamation" of iron takes place, but a merely transient enfilming, which is extremely beneficial instead of prejudicial. Kustel admits the prevention of flouring of the quicksilver, and concedes also "that one or two pounds of sodium in a ton of quicksilver, and concedes also "that one or two pounds of sodium in a ton of quicksilver will undoubtedly show a good result if gold quartz is treated with it properly."

The negative results of one experimenter, especially when based upon an incorrect understanding, weigh but little against the concurrent positive results of many others. To show that others versed in the amalgamation of sliver ores do not concur with Mr. Kustel in his opinions, I shall quote Mr. S. R. Kimball, a conductor of important metallurgical works in San Francisco, who writes April 14, 1866, to the Mining Press of that city, as follows:—"I have probably had more practical experience in the use of sodium for extracting the preclous metals than any other man, and I have been very much excited by its beneficial results. As Mesers. Silliman and others have given several statements of practical workings, it is unnecessary for me to make any; I am satisfied they are correct, as they correspond with my workings, both with and without addium. I notice my friend, Mr. G. Kustel, has been making some experiments with sodium on argentiferous ores, with rather poor results. I hope he will not discard its use without making more experiments with different proportions. If he does this I think he will agree with me."

Another California writer has thrown out the suggestion that the difficulty of enfilming the particles of gold with quicksilver is due to strongly adherent films

Informs me that, the user with the says, that certain metallic powders are more seally wetted by scaler when the last and the entiming of gold by quicksilver, some observer analogy between this case and the entimine of gold by quicksilver, butable to the consider sods formed by its oxidation, and that the latter state when the consideration of the consideration of the substituted for it. Had be made experiences upon some naive gold before an individual of the consideration of the conside

chemist merely— "A thing for laughter, fleers, and jeers," is to explain the object and origin of such a fantastic and apparently puerlie hoax. It was simply an ingenious but futile commercial trick, the motive for it having been the hope of embarrassing the transportation and introduction of amalgams of sodium into the mining regions by those legitimately entitled to introduce it, until the completion of certain arrangements for infringing upon the patent rights that have been granted by the United States in the premises. In the course of Prof. Wurtz's remarks, he was interrupted by questions from Profs. Stoddard, Perkins, and Hadley. At the conclusion of the paper, Dr. Prevident Barnard remarked that he felt great interest in the discovery made by Prof. Wurtz, and thought he might be regarded as one of the benefactors of the world in making two grains of gold available where there was but one before. In response to an enquiry, Prof. Wurtz said that the discovery woull lead to an extensive development of the manufacture of sodium, aluminum, magnesium, calcium, &c., to render them cheap and useful in the arts.

SODIUM AMALGAM-REPLY TO PROF. WURTZ.

sum, calcium, &c., to render them cheap and useful in the arts.

SODIUM AMALGAM—REPLY TO PROF. WURTZ.

SIR.—In the Mining and Scientific Press of September 29, I find a paper on the "Utilisation of Sodium in Gold and Silver Amaigamation," rend by Frof. Wurtz before the American Association for the Advancement of Science, at Buffalo, in which "some objections are considered," whereby Mr. Wurtz, with a sort of self-confidence, accuses me of errors, fallacies, and non. Concurrence in opinion with other Californians experienced in amalgamation. Mr. Wurtz asys—"Kustel has erred mainly in supposing that the purpose of the sodium amalgam was to decompose silver ores by extracting their sulphur by shear force of chemical affinity." The chemical action by which the sodium decomposes allver ores is the only fact which can be proven as being effective in the treatment of such ores. When ever sodium amalgam comes into contact with silver sulphides, chlorides, tellurious did with the sodium in the solution, and only an equivalent quantity of solium amalgam comes into contact with silver sulphides, chlorides, tellurious did with the sodium in the solution, and only an equivalent quantity of solium amalgam comes into contact with silver sulphides, chlorides, tellurious the sulphides of the solium amalgam of the practice, if there is no more silver reduced than what was freed by action of remical affinity?

What practical use can be derived from that point of vices which Prof. Wurtz assumes? The "highly electro-positive condition of the quicksilver" is certainly assumes? The "highly electro-positive condition of the quicksilver is certainly assumes? The "highly electro-positive condition of the quicksilver is certainly assumes? The "highly electro-positive condition of the quicksilver is certainly assumes? The "highly electro-positive condition of the quicksilver is certainly assumed to such assumed to such assumed to the supplication of sodium. for two reasons:—First, on account of its being too expensive; second, because the

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SIR,-

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mean At of thi doubt would n his case some pulverised sliver ore should have been introduced, together with be sodium amalgam, which of the vessels would prove unsuitable—the iron one, seed that the sodium in the shortest time, or the stone vessel, where all the solid has been used to act upon the ore? The result and common sense will answer, which was a says—"The rapid and perfect collection and separation from a slime following the solid has been seen that the solid has been so that the solid has been so that the solid has been solid has a s

DETECTION OF FIRE-DAMP.

SIR,—It is quite evident that your correspondent, "Carbon," is not roughly acquainted with Mr. Ansell's "Fire-Damp Indicator," therwise he would not have started an objection to its use which cherwise he would not have started an objection to its use which does not exist, or rather which Mr. Ansell has successfully overcome. It is very important that all objections which can be raised to the instrument in question should be made public, in order that Mr. ansell may be prepared to meet them, as, if the Indicator is to be frought into general use, it should be as perfect as human ingenuity can make it. There is one objection I have heard, which, however singular, will, I fear, militate against its being voluntarily adopted—that in many mines there is such an amount of fire-damp that men, if they knew the extent, would not venture to go down. they knew the extent, would not venture to go down.

Rossie Priory, Nov. 21.

CARBURETTED HYDROGEN GAS EVOLVED IN COAL MINES-No. I.

-Gases evolved in coal mines are more numerous than per aps it is requisite to enumerate; yet there are two which necessademand the attention of the miner, they being generally prent, more or less, in all coal mines—light carburetted hydrogen gas gnt, more or less, in all coal mines—light carburetted hydrogen gas (the fire-damp of the mine), and carbonic acid gas (choke or blackdamp). The former of these we intend to consider, it being that agent which has too often caused bereavement, and thrown a mourning influence over the colliery villages belonging to those mines where such catastrophes have occurred. Fortunately, however, all eadledly, and, perhaps, when least expected, in such quantities as to render it a most subtle and formidable enemy to encounter, if the means which are placed at our disposal at the present day be not indiciously used in guarding against the effects it is capable of producing. This gas is known to be produced by vegetable decomposition; this is made manifest by observing the large quantity sontaneously formed and emitted from marshy grounds and stagnant pools, where vegetable refuse is ever accumulating, and constantly madergoing decomposition. This spontaneous emission may sufficiently explain the cause of its presence in such large quantities as is frequently experienced in some of our coal mines; coal being of regetable origin, and having undergone a state of transition from the vegetable form it primarily held, to one of a hard compact mineral mass, will, nevertheless, retain the elements of its vegetable crigin or nature, such change being, no doubt, caused by that exteme pressure exerted thereon, consequent on the weight of superincumbent strata, aided and assisted by internal heat. Assuming such change to have been the result of and under the conditions named, it may not be considered too much to presume that gas, during such state of transition, would have been spontaneously mitted if the means of escape had offered. But such escape being dosed, it consequently becomes sealed, and retained as a component part of the mineral itself, or is otherwise retained in a latent state. Although all artificial means and attempts to reduce this gas to a liquid or solid state have proved fruitless, yet such is not sufficiently he fire-damp of the mine), and carbonic acid gas (choke or black-

art of the mineral itself, or is otherwise retained in a latent state. Although all artificial means and attempts to reduce this gas to a liquid or solid state have proved fruitless, yet such is not sufficiently smolusive that, under the circumstances assumed for its deposition and retention in the formation of coal, it has not been so reduced, and in such condition retained until means of escape are directly mining operations for it again assuming its natural pascous form. Its pressure and emission, in many cases, are of a character sufficiently strong to warrant the opinion already expressed, that after being sealed by the deposition of an overlying strata, it must have been reduced to some state other than its natural gaseous as, inasmuch as I think clear and patent to all who are familiar with coal mines, and have had the opportunity of observing the force exerted by gas, when released in sudden outbursts, in what is generally called blowers, that such must necessarily have some very extensive, and almost in such instances an inexhaustible source, eving to the quantity emitted, together with the force and duration of such emission.

on of such emission.

esign to the quantity emitted, together with the force and duration of such emission.

I am well acquainted with a blower of gas which at this day, after being constantly discharging for 36 years, does not appear to have lest any of its primitive vigour. This blower is in a stone drift at Eillingworth Colliery, in Northumberland, and was encountered when in a hard sandstone rock. This drift was driven from a depth of 60 fms. below the High Main coal seam, to underset or strike the same seam as it dips towards the 90 fm. fault. After undersetting the Low Main coal seam a distance of about 200 yards, when in a thick bed of sandstone, this blower was met; and such was the force it came off with that it caused all further operations to be suspended for a time, until means were adopted for carrying off safely such a quantity of gas as was regularly discharged by this blower. At the point of this outburst it could not be less than upwards of 12 fathoms above the Low Main coal seam, and 8 fms. below the Bensham (vertical measurement). As no smaller seams intervene between these two mentioned, it is thought to have a connection (consequently its source) from the Bensham seam by a throw some distance from its cutlet in the drift. That such blowers or outbursts of gas have their connection with seams of coals, or in veins of coal often found embedded in sandstone rock, is an opinion greatly favoured by the reconnection with seams of coals, or in veins of coal often found embedded in sandstone rock, is an opinion greatly favoured by the results of practical observations. Thin seams of inferior coal, often those which themselves yield a small proportion of gas from distillation, are found to discharge large quantities. It is likewise found when approaching faults, and when these are thrown up any considerable distance it is found to be very inconvenient, as it requires a much stronger current of air to dilute and render harmless the gas formed collisions and the stronger current of formed or discharged in these situations. In like manner faults, when thrown down, are very easily ventilated; any gas discharged accends by its own gravity, and thus establishes natural ventilation. The blower above referred to has been burning, day and night, for a period of 38 years, and is at this time, or at least was when last I saw it throw you are the former and the secondary days. it, three years ago, capable of sustaining a constant flame from an ordinary 1-inch gas-pipe, which is inserted in the sandstone rock, and wedged in such a manner as to collect the gas and conduct it by such pipe to be utilised in lighting up the drift. The extraordinary quantity of gas discharged by these blowers, likewise that which is constantly exuding from the pores of the mines silently, but yet danserously, necessarily suggests the idea of its being in a constant and regular state of formation, for it cannot be rendered clearly manifest how such a quantity of gas could be pressed or bottled up in a gaseous state as are in many instances forcibly emitted by these blowers, together with the constant flow from the pores of the mines. Yet the tendency to assume such gaseous form is evidently very strong; inamuch as we find that, when once formed, it will resist all attempts and artificial means that have ever yet been employed to confine it within prescribed limits; and I think it would be a difficult matter to define the amount of pressure per square inch required for overcoming its elasticity. An instance of the force it is capable of exerting may here be mentioned, for the benefit of those who might at any time be tempted to confine gas as it ooses in its tenuous character from the pores of the mine within prescribed limits, by artificial hree years ago, capable of sustaining a constant flame from an any time be tempted to confine gas as it occes in its tenuous charac-ter from the pores of the mine within prescribed limits, by artificial means, when placed in similar circumstances, or otherwise when the convenience of the mine might urge.

At a colliery on the banks of the Tyne, near Newcastle, an attempt

At a colliery on the banks of the Tyne, near Newcaste, an account of this character was made, and certainly it was made under circumstances of a very favourable obsarcter, so much so as to leave no doubt whatever on the minds of the colliery officials that their efforts would prove effectual. The particular and circumstance, and

the situation of the same, being thus related by one who was a workman at the colliery at the time. A piece of coal being wrought away from the under, or dip, side of a throw, by means of a staple sunk for the purpose of working the same, the seam of coal rose considerably from the staple, so that the water formed in the working of the seam drained itself to the bottom of the staple, it being the lowest point of level, from which it was pumped by manual labour to the top. After sometime working in this position, it was at last resolved to abandon them; yet, from the circumstance of the workings being at a higher level than the bottom of the staple, it still required the water to be pumped out to enable the workings to be ventilated, owing to the quantity of gas given off in them. At length the constant source of expense arising from the water having to be pumped daily from the staple, no doubt, influenced very much the idea and thought of damming and sealing in the gas within the workings, for such an attempt was made by filling up the staple with strong blue clay, with large stones embedded therein, all of which was beat in properly to form as solid and impervious a mass as the nature of the material used would permit, and of such the staple was filled up for a distance of 8 or 10 fathoms from the bottom. For sometime this was thought secured, and was considered as a successful operation.

clay, with large stones embedded therein, all of which was beat in properly to form as solid and impervious a mass as the nature of the material used would permit, and of such the staple was filled up for a distance of 8 or 10 fathoms from the bottom. For sometime this was thought secured, and was considered as a successful operation; whilst at the same time the gas, from its compressible character, was being pent up, gradually increasing in elastic force until such was sufficient to overcome the resistance (great though it was) offered against it in the staple. The clay and stones were forced up, accompanied with a body of water sufficient to allow the gas to escape in a volume with a sudden outburst, or what is commonly termed a water-blast. This having direct communication with the intake at a point where, under all ordinary circumstances, on danger could be apprehended. It is only just, while mentioning this circumstance, to add that the greatest care and attention had always been manifested by the officials at this colliery for the security of their men from the danger ever attending fiery mines, such watchfulness being rendered necessary by the constant and excessive discharge of fire-damp known to issue from this mine.

For the information of those whose ignorance of the peculiarities of a coal mine is very evidently manifested by their language, and the reflections which they cast upon colliery officials partake very much of a posthumous philanthropy, whose object is rather to angle for popular applause than to assist the colliery officials by their superior khowledge, to the sawing of the lives of colliers, I may add that a colliery, or at least the winding and tortuous galleries in them, are in practice something greatly different from the ideas formed of them merely by description; it is true that there is to be a road for air to go in, and another one, quite separate, for it to return by. This expression, according to the knowledge of those practically acquainted with collieries, signifies that the

EXTENSION OF THE ENGLISH COAL TRADE.

"Ireland stood at the bottom of the list of coal-producing countries; and when he heard so much about the condition of that country, he thought that was a fact that should not be overlooked. The miseries of Ireland were prepared millions of years ago, when floods denuded the coal fields, and left only he bottom measures."—Prof. W. S. Jevons "On the Probable Exhaustion of our Coal Seams" (Mining Journal, Nov. 17, 1866, page 749).

one contom measures. — Frot. W. S. Jevons "On the Probable Exhaustion of our Coal Seams" (Mining Journal, Nov. 17, 1886, page 749).

SIR,—The same learned gentleman commenced his lecture by stating—"But for England coal was the great material source of Prosperity, and its chief source of Power." The statistics yearly published show that all Ireland produced in the year not so much coal as one colliery of an ordinary class here in Westphalia.

In the evidence given (May 5, 1865) before the "Royal Commission on Railways relating to Ireland" (p. 60), it is stated by one witness—"But I may say I look to the introduction of coal into Ireland as the lever and the means of improving that country, coupled with low rates for the transport of goods, beyond anything else." Again—
"As far as my experience has gone on the Continent and everywhere else, I have seen no manufactories, nor any great industry, successful where there has not been a regular supply of coal, even where there has been water-power, wood, and turf in abundance. I believe it would be quite practicable to deliver coal in the interior of Ireland, 100 miles from Dublin, at a cost varying from 14s. to 18s, per ton, and to have it regularly supplied there, so that manufacturers, and other persons requiring it, should feel satisfied that they would be quite safe and secure in commencing operations," &c.

Again (page 61), in reply to question 1204—"If it is not worth

Again (page 61), in reply to question 1204-"If it is not worth while to make branch railways to develope the Irish coal trade, what reasonable ground is there for hoping that a reduction of the rate of carriage of coals would very much increase the English coal trade?

The answer is—

"Because the English coal trade is already developed. You can have any quantities that you wish to have from England over to Dublin. Ireland imports at the present time about 2,000,000 tons, and I understand that about 600,000 tons of the gross quantity go into Dublin, and this without any connection of the railways (except one) with the harbour or with each other at Dublin, so as to facilitate the passage of this cheap article throughout the country. If, then, you can buy coals largely on the coast of Whitehaven and Lancashire (the coalowers will deliver their coal into the ships at the average price I have stated; I do not mean all screened coals, but the coals as they come from the pits, for the Irish would consume the slack as well as the large coal), at anything like 6s. per ton, and if you deal with hundreds of thousands of tons, I believe there is no question that the English coal would be taken cheaper into Kilkenny than you would get the Kilkenny coal."

Very many witnesses testify to the importance of our English and

Very many witnesses testify to the importance of our English and Welsh coal trade to Ireland, amongst others Mr. Cawkwell, the ge-neral manager of the London and North-Western Railway, who states,

neral manager of the London and North-Western Rahway, who states, page 220, question 5241—
"The Lancashire coal proprietors calculate upon getting a very large trade indeed to Ireland; and if they can carry the coal to Dublin, and put it direct from the steamers into the wagons on the quays, and send it away by railway, they will be able to do it, I think," &c.

Again, Mr. F. Allport, general manager of the Midland Railway Company, says, in answer to question 5331, as to the price at which coal could be delivered in Ireland—

coal could be derivered in freiand—

"Assuming that we charge \(\frac{1}{2} \), per ton per mile, the route it would have to be shipped being a distance of, probably, about \(\theta \) or 70 miles, that would be \(\theta \). The cost at the pit's mouth would be the average of \(\theta \), per ton, that would be \(\theta \). There is no reason why the freight across the Channel, if they had acrew steamers, should exceed \(\theta \). Ed. per ton. I may state, with regard to the screw steamers from Newcastle to London, in which, at one time, I was largely

interested, that we were perfectly willing to take a contract for a year at 4s. 6d. per ton from Newcastle to London; 5s. per ton we considered a very fair price and out of that 5s. we had to pay City dues, so that I think I put a fair sum at 2s. 6d. for the communication across the Channel. Thus, if they adopted the same scale in Ireland for long distances, there is no reason why coal should not be sold on the extreme west coast of Ireland at something like 16s. or 17s. per ton at the outside."

Now, coal ranging from 12s. to 17s. per ton, according to the position of the place on the east or west coast of Ireland, is, as Mr. Bidder says (page 178), "such a blessing," that people would consume it; and at all events, men of enterprise and industry being assured of its delivery at such prices, would be as well enabled to establish manufactories there as in parts of England where it is as dear, or much dearer; and thus it appears the coal proprietors of Lancashire, Wales, and Whitehaven joining hand in hand with Irish railway companies, may not only importantly extend their own home market and traffic respectively, with profit to themselves, but with manifest advantage to England and Ireland, and so relieve Ireland from "the miseries" which Professor Jevons says "were prepared millions of years ago."—Rhenish Prussia, Nov. 19.

OBSERVER.

THE NEW SHROPSHIRE COAL FIELD.

THE NEW SHROPSHIRE COAL FIELD.

SIR,—In the Journal of Oct. 27 you published some remarks of mine on the above supposed new discovery of coal, notwithstanding which I find an article from the Birmingham Daily Post of Nov. 12 copied into last week's Journal, under the head of the "Report from North and South Staffordshire," and the Shropshire News of Nov. 15. Now, Sir, I would not have troubled you again on the matter were it not that I wish to guard the public against the belief that a really "new coal field" has been discovered. The discovery, so called, is fully explained in my letter in the Mining Journal of Oct. 27, wherein I stated that the "Great Shropshire Fault" is erroneously shown on the Ordnance Map as a slip fault. The pits lately sunk, called the Stafford Pits, are sunk almost on the line of the slip fault, as shown on the Ordnance Map, which, by the map, is made to divide the coal measures from the overlying Permian. But the writer in the Birmingham Daily Post, who expatiates so graphically on the subject, forgets, or may not be aware, that the Lilleshall Company sunk pits (called the Granville Pits) about two miles to the north-east of the Stafford Pits, and about \(\frac{1}{4}\) mile to the east of the "Great Shropshire Fault" on the Ordnance Map. In the Granville Pits they sunk through about 90 yards of Permian, and reached the Bilue Flat ironstone, I think, about July 31, 1860. Now, here was an apparent discovery, but not then described as a "new coal field;" neither is it, as the Granville Pits are on the west side of the Symon Fault, and not on the Wolverhampton side of the said fault, as the several articles would lead the unknowing public to infer. At Madeley the coals have been worked for some years to the east of the line of the Great Shropshire fault on the Ordnance Map, but still they are on the west side of the Symon Fault, and not in a new coal field, in the vast expanse lying between coal fields hitherto known as the Shropshire and Staffordshire.

Marcus W. T. Scott.

Great George-s In the Journal of Oct. 27 you published some remarks of mine

Great George-street, Westminster, Nov. 21.

BORING BY MACHINERY, AND BLASTING BY ELECTRICITY.

SIR,—As the important economic results attending the use of my boring machine do not appear to be thoroughly understood by the metalliferous miners in this country, I shall be glad if you will publish the enclosed translation of a letter which I have just had the pleasure to receive from Mr. W. Nast, showing the results obtained with my boring and blasting machines in the Ast Tunnel, Brenner Railway, from Inspruck to Bozen :-

way, from Inspruck to Bozen:—
"To Mr. F. Abegg, C.E., London.—By the use of your boring-machine we have obtained the following results in the Ast Tunnel:—
One man bores with the machine, in 30 minutes, a hole 36 centimetres (14½ in.) deep and 4 centimetres (1½ inch) diameter, in hard granitic schist; or a hole 26 centimetres (1½ inch) diameter, in hard granitic schist; or a hole 26 centimetres (9½ inch) diameter, in diameter, in quartz.
Two men bore with the mallet, in 30 minutes, a hole 19 centimetres (7½ inches) deep and 3½ centimetres (1½ inch) diameter, in the hard granitic schist; or 16 centimetres (6 5-16th inch) deep and 3½ centimetres diameter, in quartz.
We use your electric machine and fuses with highly satisfactory results, and are able to blast 30 holes of great depth simultaneously.

Sterzing, Tyrol, Nov. 16.

Olstrict engineer of the Royal, Imperial, Southern Railway Company."
This, you will admit, is an extraordinary result, and, no doubt.

This, you will admit, is an extraordinary result, and, no doubt, much of the success may be attributed to Messrs. Nast and Pettenhofer having caused particular care to be taken in the making of the bits of the borers.—London, Nov. 21.

ALGERIA-No. III.

SIR,—We have now arrived at the northern foot of the Atlas Mountains, and in order to complete the transverse section from the sea to the great forests of date palms that beautify the margin of the great ocean of sand, and give grateful sustenance to its wandering inhabitants, we should cross over and examine this mighty Sierra, the proper home of the Numidian lion. Before doing so, however there are a number of things on the northern side that require consideration, amongst which the El Hummum, or hot springs, near Ain Cranchla, are very curious. These springs, consisting of nearly boiling water, issuing from the rocky border of a confiderable stream of cold water, possibly of a volume of 5000 gallons per minute, are situate about 200 yards to the east of where a large copper lode crosses the river. This lode is a strong, compact vein, 20 ft. wide, of spar, blue carbonate of copper, grey sulphuret of copper, containing 20 ozs, of silver to the ton, and a large body of barytes. The substance of the copper vein being harder than the limestone in which it is embedded, it has formed a bar, or dam, in the stream, over which the water falls for a height of 3 feet before running down to the hot wells. The line of this great lode is east and west "magnetic," and it underlies to the south, under a mountainous ridge 2 ft. in a fathom from perpendicular. It is impossible to imagine a more beautiful substance than the stone composing this lode; it looks like lapus lazuli spotted with silver, and when I visited the spot several tons of it were blasted off the crest of the vein, and lying by the side of the stream. In attempting to account for the strong issue of very hot water, my attention was called to a series of iron beds in the mountain opposite the springs, which beds ran to the routh-west, and dipped south-east about 6 feet in a fathom, or at an angle of 45°. These evidently SIR .- We have now arrived at the northern foot of the Atlas Mounattention was called to a series of iron beds in the mountain opposite the springs, which beds ran to the routh-west, and dipped south-east about 6 feet in a fathom, or at an angle of 45°. These evidently formed a junction with the great copper lode in the high ground to the south, and opposite the hot springs; and it occurred to me while examining these phenomena that the water might owe its heat to the presence of the metals in these metallic deposits. Whatever the cause may be, nothing can be more interesting than the site of these metals and the averaged in section 7.5 the root cheat is said the waters and the surrounding scenery. To the west, about a mile, the valley forms itself into a basin, whose sides, apparently built with the regularity of mason-work, rise for 1500 feet above its beds. We passed up to the top of these mighty walls, and found the Arabs rethat the day before they had killed a lion. They said that he immense size, and latterly had not been scrupulous in deal-h their flocks. While the lion confines himself to the "saning with their flocks. gelier," the wild boar, the porcupine, and such like game, the natives are not disposed to interfere with him; but as soon as he manifests an appetite for mutton and beef his days are numbered. A council an appetite for mutton and beer his days are numbered. A council of war is held, a hunting party is formed from all the surrounding country, and his destruction accomplished, but often not without a human sacrifice, as the lion does not lay down his life exactly like a lamb. We also saw in a sort of field on this high ground a herd of short 100 cornels growing together.

about 100 camels grazing together.

To return to El Hummums. I do not know if there be any healthgiving properties in the water; the spot is, however, very salubrious, and the baths must have been held in high esteem by the Romans. For miles in all directions lie stones, squared by the chisel, showing that the neighbourhood was thickly inhabited, if it were not formed into a city. I saw in the woods a little up the stream finely sculptured columns, no doubt belonging to some temple: the whole place teamed with sylingers of around little up the stream finely sculptured columns, no doubt belonging to some temple: the whole place tured columns, no doubt belonging to some temple: the whole place teemed with evidences of ancient life, and I augur that time will see this district re-peopled. It lies from 69 to 70 miles south at the end of a level plain, all the way from Constantine, where the railway will be completed in something less than three years—a plain full of rich pasturage, and covered with flocks. When the mines are opened, what a situation for a railway! I have no analysis of the water in the hot springs, but I forgot to mention that much of the minerals in the copper lode were impregnated with mercury. If a city were constructed here, hot water might be conducted through

every street and every house in it, and if it possesses any health-giving elements, it might become a place of great resort; at any rate the natural riches of the country—its metal, its wool, and its cattle—in any other country would have soon decided its fate as to the dominion of the iron horse. At Ain Cranchla, the whole of the ground for a great distance is covered with old building stones; on ground for a great distance is covered with old building stones; on removing these, under almost every one was found a scorpion, and, in most instances, the remains of a locust was seen by its side, showing that the most venomous of creatures have some office of good in this world. I here saw verified a saying that I thought was only an unmeaning proverb. I had heard it said that if you enclose a scorpion in a ring of fire, he would turn upon himself and sting himself to death. Some person with us, in order to prove this, made a small circle of straw, and lighting it with a lucifer match, placed a scorpion in the middle; the insect made two or three attempts to escape, but finding his way barred by a cordon of fire, he directed his tail to his head, and immediately stung himself to death. On the north as well as on the south side of the Atlas Mountains there are extensive lakes of salt water. I do not know whether these sheets of brine were raised with the ground on which they stand, or owe their origin to some other cause. The valleys on the north side of these mountains are well wooded with oak, cedar, and other trees, and exceedingly well watered; the salt lakes lie at the foot of the chalk formation, and I have heard it said that there were mountains of rock salt near Batna, but I did not go so far to the west as this.—Nov. 21. COPPER MINER.

CHONTALES GOLD AND SILVER MINING COMPANY.

SIR,—The advices received by the last mail—the purport of which appeared in last week's Journal—cannot fail to be most reassuring to bona fide shareholders, not only that they possess a property capable of producing results fully as remunerative as those estimated in the prospectus, but that the whole of the necessary preliminary operations are being ably and zealously controlled by an experienced mind. The grautitous but interested statements that were put forth sometime the prospectus, but that the whole of the necessary preliminary operations are being ably and sealously controlled by an experienced mind. The gratuitous but interested statements that were put forth some time since as to the disorganisation among the staff had the desired effect of reducing the market value of the shares, and but for which many of "the bears" must have sustained very serious losses. There are even now, I am credibly informed, heavy "bear" accounts still open, and, therefore, if shareholders will act justly with themselves, they will disregard all market operations and rumours, and apply to the only source where trustworthy information can be obtained—the offices of the company. They will find that the last advices are regarded by the board as the most encouraging ever yet received, that the establishment was being rapidly and effectively organised, that every detail was progressing most satisfactorily, and that, although the attention of the staff was being mainly directed to the making of roads between the mines and the completion of the new machinery, yet about 300 ozs. of gold were returned during the months.

Those who have attentively perused Capt. Paul's last report can come to no other opinion than that it is the most conclusively satisfactory one every yet to hand. For instance, referring to San Antonio Mine—about which so much has been said—Capt. Paul states "that the lode is much improved at one or two points, being worth over 5 ozs. of gold to the ton, the whole of the various points averaging at least 2 ozs. to the ton, and that the lode is 2 ft. 6 in, wide," At San Domingo the necessary operations were being conducted with the utmost dispatch, and in a short time, when the shaft was cut down and timbered, driving on the course of the lode will be commenced, to get to the rich nail, which in the old mine was operations.

It was stated at the recent meeting that the completion of the tramway from the mines to the mills was a primarily important work, inasmuch as until it was fluishe

the company. Liverpool, Nov. 22.

STANNARIES COURT, AND MINES IN LIQUIDATION.

SIR,—Since the introduction of the Companies Act of 1862 the difficulties surrounding all unsuccessful joint-stock undertakings have been enormously augmented, and the increase of speculative investors pobbers, liquidators, lawyers, barristers, &c., has been, at least, in proportion to the strides made by the commerce of the country. It is not my intention in this letter to present a synopsis of the companies which have passed into the hands of liquidators during the last four years, but to put a few pertinent questions through the medium of your Journal for the consideration of the public. I have been requested to bring this subject hefore the readers of the Mainz Journal. quested to bring this subject before the readers of the Mining Journal, quested to oring this subject before the readers of the Maning Journal, in consequence of an occurrence in the Stannaries Court on the 10th of last month, and published in the West Briton on the 16th of the present month. The announcement in that paper was as follows:—
"The Vice-Warden asked Mr. Marrack how many cases had occurred since the passing of the Companies Act in which companies had been wound-up by liquidators acting under the supervision of the Court?

Mr. Marack rapide that there had been only four such acres and Mr. Marrack replied, that there had been only four such cases, and of these three had been changed from supervision to compulsory winding-up." Such was the announcement of the West Briton. So winding-up." Such was the announcement of the West Briton. So far as Mr. Marrack is concerned he has "won golden opinions of all sorts of men." He is as just and courteous to an apponent as he is zealous and acute in the interests of a client. He does much to make the Stannaries Court a less troublesome place than suitors must otherwise necessarily find it. And, probably, it is not too much to say that he has the entire respect of all whose business brings them into any contact with him in connection with the Cornish mining interest. These are the hearty and spontaneous concessions of one who has been his opponent, and in that capacity had proof of his integrity and urbanity. However, the readers of the Mining Journal must be prepared to form and express an opinion upon such a statement as that gentleman made in Court; but allow me to put the following questions, intelligent answers to which, in your columns, will throw more light upon the subject, which it is desirable the public should

-What is the number of the companies which have passed into the hands of the Registrar of the Stannaries Court since the passing

of the Companies Act, 1862?
2.—What is the number of the companies liquidated?

-What were the total debts of each when handed over to the t? [calls, &c.?--What is the amount of cash realised by the sale of machinery,

-What is the amount of calls made by Registrar of the Court?
-What is the amount standing to the credit of each company a

er's, and what interest has been paid upon it? -What is the amount of dividends paid to shareholders, if any

such payments have been made? I it true that certain companies have been in the hands of Court upwards of four years?

9.—Has not the cost of liquidation generally been greater than the

cost of working the mine?

10.—Is it true that the calls made by the Registrar have been hun dreds per cent. in excess of the total debts?

I submit to your consideration, and that of your readers, the very great importance of these questions, more especially as they are points upon which the Court seems reluctant to give information. During the last session returns were ordered from the Court of Stannarie which involved various useful matters for the information of share-holders and all engaged in connection with mines; but upon none of

the topics which my questions start for public enquiry and delibera-tion was any information whatever afforded. Persons naturally hope that when their property comes under the protection of the Govern-ment, those who represent it, and who are well paid for doing so, will be diligent, discriminative, economical, and just; but, as in the Courts of Chancery and Bankruptcy, so in the Court of Stannaries, tedious and vexing delay, and exorbitant and shameless expense are the result. The time which any company should remain under the the result. The time which any company should remain under the official cognisance of the Court should never exceed two years, and there must be something very peculiar in the case if anything near that time be requisite. A complete return should be made to the shareholders at the expiration of twelve months. As matters are now worked there is no getting full information by those deeply interested—it may be deeply compromised. There is a non possumus policy maintained when information is asked for. This is injurious to investors, to the mining interest, and to the public, and is a scandal in itself. Why should the shareholders be left for long intervals, even of years, ignorant of receipts, assets, liabilities, &c.? If it be necessary for directors to call the constituencies of companies together, it sary for directors to call the constituencies of companies together, it is many times more necessary that a liquidator should render prompt and complete accounts. Indeed, every liquidator should be a practised and acknowledged accountant, so as to ensure three things in rendering the account—clearness, accuracy, and rapidity. Balance-sheets should be placed in the hands of shareholders at reasonably short periods of time, so as to relieve them from the state of uncershort periods of time, so as to relieve them from the state of uncer tainty and anxiety about their property, such as they now are unne-cessarily made to endure. It appears to me, Mr. Editor, that this subject should be brought before "the House" next session, and a subject should be brought before "the House" next session, and a searching parliamentary enquiry into the constitution and working of the Stannaries Court be instituted.

of the Stannaries Court be instituted.

In Australia and California mining disputes are settled with facility, and to the general satisfaction of the litigants—or rather disputants, for litigation is prevented. The mode by which disputes are adjusted in those places is arbitration, and the cases are very rare in which, if it were possible, an appeal would be made from the decision which, if it were possible, an appear would be made from the decision of the arbitrators. By this means rights are established without a process so expensive or tedious as in England, and unattended by the heart burnings with which we are so familiar. In our colonies the spirit and form in which justice is dealt out is that of arbitration. Competent men decide with consent of parties. A compulsory court of arbitration, presided over by a barrister, with the rank and authority of a judge, situated in London, and with certain rules as to time, expense, and publicity to the shareholders, is the grand desideratum when litigation about mining arises.

A COBNISH CELT. when litigation about mining arises.

[The above letter is inserted as bearing upon a subject in which mine adventurers generally take great interest, and into which much feeling is necessarily at present imported; but it should be considered that most of the companies which find their way into the Stannaries Court are those which have been lamentably mismanaged during their brief and unhealthy existence, that old mine machinery has been for some years past a complete drug upon the market, and that owing to transfers being frequently made in view of the winding-up the liquidation is excessively difficult.]

CRADDOCK MOOR MINE MANAGEMENT.

CRADDOCK MOOR MINE MANAGEMENT.

Sir.,—Whilst other mines in this district take the preference for a progressive rise on development of its mineral wealth, this mine appears to drag on without the least transition or change, in the same dilatory manner as for many years past, one lease having already expired, and another partially so. Several of the local shareholders, who are men of practical experience, knowing it to be one of the best pieces of mineral ground in the two counties, have long been dissatisfied with the present management. Take, for instance, the report of the meeting held in January, 1884, where it was stated that Harris's engine-shaft had been completed to the 60 fm. level; and I find at the last meeting the shaft is only now down about 5 fms. below the 70 fm, level in a space of nearly three years, when it should at least have been to the 100 fm. level, the ground being moderately easy for sinking, when no doubt we should be receiving dividends instead of paying calls. The meetings are always held at the purser's office; several local shareholders of long standing usually attend, who have for some years been dissatisfied with the present management, and have always refused to pass the accounts or sign the cost-book, and the meetings are anything but convivial. I would ask my fellow-shareholders of practical mining experience to represent their interest; it is high time active measures were taken to bring this valuable property to a different position than at present, as upwards of 130,000l. has been made for a considerable time past, and under the present management will still have to be made, unless a more spirited development takes place. I would suggest the appointment of a thorough practical mine agent to take the management of this mine, under shows superintendence and charge of affairs it would assume a different aspect, there being only one opinion as to the merits of this extensive piece of rich mineral property.

Liskeafl, Nov. 22.

ROYAL SCHOOL OF MINES.

MB. WARINGTON SMYTH'S LECTURES ON MINING.

On Nov. 12, Mr. WARINGTON SMYTH commenced a course of sixty lectures "On Mining," at the Royal School of Mines, Jermyn-street.

The first six or eight lectures, being necessarily introductory and elementary, do not require very extended reports. He commenced by saying that, lengthy as the intended course of lectures might be, it would prove far too short to go into all the details of so wasta subject, and to treat it thoroughly as its importance deserved. He did not, however, expect to do more than to give them outlines. emenced by saying that, lengthy as the intended course of lectures might be, it would prove far too short to go into all the details of so vast a subject, and to treat it thoroughly as its importance deserved. He did not, however, expect to do more than to give them outlines, which if filled up from the books he would recommend, from visits to some of the most remarkable mining districts, and from a careful study of all the details, would make them to a great extent ready for practical work. The art of working mines comprised the whole series of processes by which useful minerals were obtained if from the beds in which they were placed by Nature, and rendered subservient to the purposes of man. It included, therefore, not only works below the surface, but open works and quarries, a knowledge of the mechanical preparation of minerals, the contrivances by which the getting and carriage of useless substances were avoided or lessened, and the necessary machinery to dress and prepare theores. The art of mining, in fact, included a knowledge of several sciences—mineralogy, which treated of the nature of the objects sought for: geology, which explained the places and conditions in which they might be found; mechanics, which taught the best modes of conveying ores underground, and raising them to the surface; and physics, which would enable them to deal with such important matters as ventilation and drainage, or the removal of the large quantity of water which almost always found its way into the lower parts of a mine. Knowledge of these sciences, or at least of such parts of them as were requisite, ought to precede the study of the art of mining; but to all this theoretical knowledge must be added a practical acquaintance with the subject to make a man competent to conduct mining operations. Lectures such as these were intended to teach the students how to combine the theoretical and practical, and to point out the true bearing and meaning of facts and phenomen. Mining schools on the Continent were carried out on a la deal of attention to detail was required before anyone could properly be expected to deal practically with such matters. Perhips there was no department of the subject which required greater attention devoted to it than the natural history of the deposits in which minerals are found; and this because it was a subject beset with mysterious phenomena, with doubtful statements, and with great uncertainties as to results; and, therefore, he should have to occupy their attention as much with geology as with mining; and, keeping clear of anything like theories and hypotheses, he should have to bring before them a vast number of incidents which partook more or less of a geological character. There was, however, another division of the subject to which it was desirable that they should first devote a little attention, and that was the condition under which however, another division of the subject to which it was desirable that they abould first devote a little attention, and that was the condition under which minerals were worked in different countries. In the original division of land throughout Europe, it appeared to have been the rule that, when the surface of the land was conferred upon different landowners, the minerals were reserved for the use of the public at large, and, therefore, the ownership of each was kept quite distinct. The consequence was that the public, having the minerals reserved to them, the latter were leased through the instrumentality of the Government to those who worked the mines. The term "royalty" was now generally applied to that proportion of the mineral which is paid to the owner by the person who works it. That term showed that it was paid originally to the Crowa, as the head of all authoricies connected with mineral matters. In this country, however, only the precious metals—gold and silver—were now claimed as the royal metals, there having been, hundreds of years ago, agencies produced which by degrees threw the ownership of the minerals, except gold and silver, into the hands of the owners of surface property. The oldest treatise on mining, in all its different branches, was a remarkable work by Agricola, published 300 years ago, in which was described very fully the arrangements the made on the first finding of minerals, for the purpose of regulating their ownership. Having referred to a number of these old customs in Cornwall, in Spain and Portugal, in South America, and elsewhere, the lecturer described the present system. In the North of England. For instance, they could not get ground for working the lead ores without paying to the owners of the minerals as much as one-fifth of the groes produce. This was so enormous that unless the deposits were extremely rich, and worked with extreme facility, it must be a great draw back to any attempt to develope a mine where any difficulties were precent. In certain other districts, a

of England, one-seventh, one-eighth, and one-tenth was common. But in the South-West districts, where the difficulties of great depths and being heaving watered, and the difficulty of having ore so much mingled that it had to be ground very small or stamped into a very fine state—all those things had considered to lower their rate below that of every other district in England, of the constraint of the con

In his second lecture, Mr. SMYTH said that the system adopted in commencing to work a mine was different in Great Britain to the in stances he had already described. The rule here was, after previously examining the ground, to arrange with the owners of the minerals such terms as might be thought mutually advantageous. stances he had already described. The rule here was, after previously examining the ground, to arrange with the owners of the minerals such terms as might be thought mutually advantageous. The first thing, then, would be to acquire a knowledge of the various repositaries in which the useful minerals were to be looked for. The minerals were generally found aggregated in two great series—the stratified and the unstratified, or igneous rocks. In the present lecture he dealt only with the first, and explained the various meanings of the local and technical names by which they were designated in various districts—beds, strata, seams, delfs, sills, neasures, posts, and grides; illustrating his remarks by references to numerous and well-constructed models, designed by Mr. Sopwith, and various diagrams and drawings. These showed the way in which stratat, which, as a rule, were more or less horizontal, were in the crust of the earth found to be disturbed, or broken up, or titled, producing what is called "the dip." The first great lesson for the miner was to make himself thoroughly acquainted with the inclination in any given district of the beds or strata, and their relation to each other. This thickness of beds was exceedingly variable, and the names of many seams of coal, which referred to a particular thickness, did not represent that thickness, throughout. Thus, the 10-yard coal of Staffordshire varied from 26 ft. to 38 ft. in thickness. Coal in this country was met with of most varying degrees of thekness, from beds of 1 inch thick up to the Staffordshire beds of 12 feet or more. In France, where the coal measures are much twisted and broken, there were beds, which he had seen himself, 100 ft. thick, and often lay at right angles from roaf and floor. The most convenient thickness to work was from 4 feet to 8 ft. In Yorkshire, parts of Lancashire, and Gloucestershire, beds as narrow as 1 ft. 6 in. are worked; and in Radstock, Somerset, only 11 in. seams were got. The great difficulty the miner had to contend with i

stratified rocks yielded a wast number of extremely valuable minerals, particularly inostone. In the Lias formation at Middlesbro'; its working had become of so much importance, that the owner of a certain estate, who did not receive anything a few years ago, now realised \$5,000. a years in the shape of royalty.

In the third lecture, Mr. SMYTH gave a description of the unstratified rocks, the veins or lodes in which, instead of running horizontally, were chiefly vertical, or with a dip at the angle of from 40° to \$50°. Veins often had a parallelism with the surrounding masses of imineral within, and frequently extended in an unbroken manner through rocks of various and different kinds. These veins varied greatly in size and extent. The larger ones were called "veins," but the smaller "branches," "strams," or "15bs." The two great points in working a vein to be observed were the direction in which it ran, and the dip. The direction was generally pretty regular where the rocks were distinctly characterised, but when they were broken up and distorted it was difficult to trace the vein through so many different kinds of rock, and its value would often greatly vary. The dip was also regulated by the same conditions. It was an accepted rule that the richness of a lode depended upon the underlay, those which were more inclined to the perpendicular being the richest. There were instances, however, in which the reverse was the case. Amongst the difficulties attending this class of mining, it was found in Derbyshire, Yorkshire, Durham, Northumberland, and in the Alston Moor district, in Gumberland, that the lodes would come vertically down through one class of rock, and then (as it was locally termed) "squinting of" to one side, after which they would reappear. This often led to greatly endowed the productive and valuable bodes were worked at the lode by cross-cutting. A remarkable instance of this kind had been found at the Wheal Jane, near Truro. The average thickness of meal-bearing lodes, taking all the districts in

The fourth lecture related to the Distribution and Extension of The fourth lecture related to the Distribution and Extension of Mineral Veins. Some of the specimens exhibited the previous day showed that the structure of the lodes from which they were taken was ribbon-like, or as if the masses were a series of stripes. In those cases it was supposed that the lodes were deposited at different periods, and so it became of importance to know whether the ore searched for belonged to the newer or the older deposits. This raised the question as to the manner in which the flasures in which the lodes were had been filled up. This was a fertile subject of dispute, and there certainly at present were not sufficient data to settle the question. The practical effect of the present incomplete state of knowledge was that much was left to the sagacity of the miner and to the observation of trivial matters, which by comparison were supposed to lead to conclusions which frequently proved to be satisfactory. The lecturer then drew attention to a large drawing of a section of the famous Botallack Mine, visited some time ago by the Prince and Princess of Wales. That mine was worked to a great distance under the sea, it having been found necessary, by the interpolation of an unproductive part of the vein, to drive galleries through the solid rock for a distance of no less than 300 fathoms before a productive part of the vein was again reached. Now, as the expense of driving a gallery varied from \$L\$ to 101, per fathom, it was evident that when an unproductive piece of ground was reached the question as to what course should be pursued was one of the highest importance. In this case there was a remarkable degree of skill in the calculations made as to the direction and future value of the lode, and a bold and extensive expenditure of capital. Had a feeble, parsimonious system of management been pursued the mine would have been abandoned long ago, and the valuable produce now obtained left for the enterprise of future generations. A similar case was furnished by the Wheal Friendship, in Devonshire, where, although the mine had been productive for many years past, the adventurers did not abandon it when they came to entirely unproductive ground, but drove galleries of very great length, until they again reached a very productive part of the vein. Having thus referred to the structure of veins, he next proceeded to consider how the veins must be followed. Supposing a vein offered a sufficient degree of profit at a certain point, were they to expect that they would continue to meet with the same results over a very long distance, in which direction were they to look for the extension of the vein? The maps of Cornwall, Devon, and Freiberg, in Saxony, exhibited the districts in which the veins had been most ciently made out. From these it appeared that the veins took one definite coarse; and, generally speaking, all the veins yielding the same kind of metal or ore were found to run more or less in the same direction. This direction was generally referred to the meridian, as shown by the compass; but on the Confinent, instead of reckoning by degrees they referred the direction to hours. For that purpose a circle was divided to correspond with the hours of the day, in which case a vei In his fifth lecture, Mr. SMYTH directed attention to the depth at

which they might expect to find lodes. A considerable amount of uncertainty existed on this point in some of the newer mining districts, consequent upon ignorance of what had been done in other neertainty existed on this point in some of the newer mining disricts, consequent upon ignorance of what had been done in other
laces. In Cardiganshire, it was a general belief a few years ago
hat lend was not to be found at a greater depth than 40 fms. So
har as was known, however, there was no limit to the depth at which veins
build be found, there being very few cases on record of even an apparent cutng out of the vein. The only difficulty met with was to work the mines protably at great depths, in consequence of the great expense of raising the ore
had draining off the water. Mr. Smyth gave some particulars as to the averge depths at which mines were worked in various mining districts. He nextreceded to enquire how far the nature of the rocks in which the veins are
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Meetings of Mining Companies.

WEST CHIVERTON MINING COMPANY.

Ageneral meeting of shareholders was held on the mine, on Nov. 19,
Mr. Edward Burgess in the chair.
Mr. Clogg (the purser) read the notice convening the meeting, and
the minutes of the last were approved.
The accounts for the three months ending September showed a
credit balance of 15,7524, 4s. 10d.

redit balance of 15,752/. 4s. 10d.

The report of the agents concluded by stating, that "looking at the aluable piece of ore ground opening out in the 100 fm. level, and likewise the agthening of the ore ground in the different levels as we go deeper in the estern part of the mine, we have no hesitation in again saying that you possess very prosperous and valuable property.

The CHAIRMAN said he had much pleasure in meeting his fellow-tayeholders upon the present consistent as it afforded him another.

a very prosperous and valuable property.

The CHAIRMAN said he had much pleasure in meeting his fellow-shareholders upon the present occasion, as it afforded him another opportunity of congratulating them upon the satisfactory position their property continued to maintain. He was glad to be in a position to state that they had succeeded in obtaining a new lease of the greater portion of the western ground—that is, 400 fms, west of Batters's shaft; this was the more satisfactory, inasmuch as Mr. Reynolds had always said he would not grant a new lease, because he did not like to see his ground remain unworked, the main operations in the mine having been confined to the cast of his ground, but arrangements had been perfected, and an amount paid on account of the dues upon the lead to be raised. Therefore, the accounts now presented did not show anything like the prosperous state in which the mine really was, because the merchants' bills had also been unduly heavy; but after the payment of the proposed dividend of 60004. (2), per share), and providing for a large outlay in plant, which had been liquidated out of the profits, there would remain an undivided balance of 97504. 48, 10d. (Hear, hear.)

Mr. T. C. Mundey enquired if the agents could form any correct opinion of the amount of expenditure that had been incurred upon the surface during the past three months?——Capt. JULEFF repiled about 1800.

Mr. MUNDEY also wheel to know if their worthy Chairman (Mr. Burgess), Mr. R. Hawke, and the other gentlemen who so satisfactorily conducted the financial affairs of the mine, received any remuneration for their services?——The CHAIRMAN repiled in the negative, stating that, with their large stake, they were only so glad to devage their time and attention in the promotion of the pest interests.

the received any remuneration for their services?——In CHAIR-the negative, stating that, with their large stake, they were only out their time and attention in the promotion of the best interests r.—Mr. MUNDEY asked if the purser ever gave a bill for stores, e state of the accounts might be known?——Mr. CLOGO replied only were drawn for, a contract having been made for 12 months, is the coals only were drawn for, a contract having been made for 12 months, in terms being that the coals were to be paid for in two-monthly installments, here were no liabilities of any kind that were not charged in the accounts, nor crebills given for stores.—Mr. MUNDEY had understood that it had been tranged to erect a large engine for the western ground, the cost of which, induling everything, was to be 33901. If such were the case, he should like to now whether the shareholders need apprehend any reduction in the amount of lyidends while that expenditure was going on?—The CHAIRMAN said the dilitional expenditure thus incurred would be charged in the monthly cost-needs, or would be liquidated by an extra parcel of lead which would be raised, behat no diminution of dividends could accrue on that account.

A SHAREHOLDER wished to know if the accounts for materials were carefully neeked, and if they were purchased in the cheapest market, inasmuch as the urser was always in a position to pay cash?—The CHAIRMAN said the materials were always purchased in the cheapest market. If they had a shareholder ho was a merchant, who could supply as cheaply as anyone else, they would

purser was always in a position to pay cash?—The CHAIRMAN said the materials were always purchased in the cheapest market. If they had a shareholder who was a merchant, who could supply as cheaply as anyone else, they would buy of him, but if a saving could be effected by purchasing elsewhere it was invariably done, as might be seen from the statement of accounts.

Mr. G. BATTERS enquired of Capt. Juleff the amount of ore ground that was being opened up monthly in excess of that taken away? He found the reserves of ore had gone on increasing ever since the mine had been in possession of the present company, and he hoped the same conservative policy would continue to be pursued.—Capt. JULEFF said that, independently of all the other levels, there was more ore ground being opened up in the 90 and 100 fm. levels than was being taken away, in proof of which he might mention that they were driving 5 fms. in the 90 fm. level, valued at 751, per fm. (3501), and 4 fms. in the 100 of the same value (3501). Reckoning only 5 fms. up and 5 fms. down, it would be seen they were opening up ore ground of the value of 70001, per month.—Mr. G. BATTERS further enquired the value of the present excess of the reserves monthly over the returns?—Capt. JULEFF computed the value of the monthly excess at something like 30001.—Mr. MuxDery asked Capt. Juleff what he considered a fair valuation of the present reserves ?—Capt. JULEFF computed the reserves to be worth something like 130,0001.—Mr. BATTERS reminded the meeting that when the mine was purchased the reserves did not exceed 30,0001.

If, however, the explorations were now to stop, he should like to ask the opinion

of Capt. H. James (who had just inspected the mine for a large shareholder) whether the total reserves were worth anything like 200,000l, ?—Capt. James would not like to say that 200,000l, would not be under the mark. The mine was being carried out in every way as it should be.

Mr. MUNDET said various sinister rumours had been put in circulation, that the lode in the 99 and 109 fm. levels had failen off. In the interest of a large number of friends who were shareholders in the mine, he deemed it an act of duty to be present to-day, and to bring his own agent. Capt. H. James, who had inspected the mine for him; and in the presence of the shareholders he should like to ask Capt. James whether such was the case?—Capt. James replied in the negative, and stated that, taking only 5 fms. below the 90 fm. level, and 5 fms. above, the reserves might be safely estimated at 130,000l.—Mr. MUNDET said he had placed Capt. James's report in the hands of the purser, that it might be sent to every shareholder.—Capt. JaMES, in reply to a question, stated that the reserves, which he had valued at 130,000l., would come away very cheaply He never before had such a high opinion of the lode in the 90 fm. level.

Mr. Batters asked if Capt. James judged more favourably generally of the property than when he last inspected it?—Capt. JaMES replied most emphairable in the affirmative, and stated that he had never seen any mine in England or Wales, or, indeed, anywhere, with such a lode as that in the 90.

Mr. Batters asked if Capt. James judged more favourably generally of the property than when he last inspected it?—Capt. James his opinion of that level?—Capt. JaMES and the dip of the ore was westward, and the run was being approached in the 100. He found the lodes were coming together, and the water was very strong in the cross-cut, which latter was now in 10 ft., and for the part seen the lode might be fairly valued at 70t. per fm., and there were many feet yet to cut.

The Charleman asked Capt. Nancarrow his opinion of the 100?—Capta

THE GONNESA MINING COMPANY (LIMITED).

The annual general meeting of shareholders was held at the offices Queen-street-place, on November 14,
Mr. JOHN ORRED in the chair.
The SECRETARY read the notice convening the meeting, and the

The SECRETARY read the notice convening the meeting, and the following report of the directors:—

You will have been gratified to see by the accounts lately circulated amongst you that a profit of 6866. 10s. 3d. has attended the operations of the year ending June 30 last, and that a sum of 1185f. 6s. 6d. was gained on realisting the stock of ore which figured in our previous accounts, making, with 485f. 1s. 11d. the balance of last year's profits brought forward, a total sum of 8806f. 19s. 1d. to the credit of profit and loss account. Against this amount we have deemed it right to charge three items which appeared in former balance-sheets:—

Preliminary expenses

Balance of costs and returns account, 1864

902 6 2

Loss on stock of ore of 1864

215 1 7

PORT PHILLIP AND COLONIAL GOLD MINING COMPANY

PORT PHILLIP AND COLONIAL GOLD MINING COMPANY.

An extraordinary general meeting of shareholders was held at the London Tavern, on Tuesday, for the purpose of electing two directors, in the place of Sir Charles Henry John Rich, Bart., and Capt. J. Vetch. R.E., who have resigned; and also for the purpose of electing a trustee in the room of the said Sir C. H. J. Rich, Bart.

Mr. John Distin Powles occupied the chair.

Mr. Fielder (the secretary) read the notice convening themeeting.

The Chairman said, before proceeding to the business for which the present meeting was called, he might just advert to the satisfactory advices received by the last mail. Since the general meeting, in July, there had been several months in which the produce had been very low. During the progress of those unsatisfactory returns, Mr. Bland was endeavouring to impress upon the mine superintendent, the desirability of leaving in the mine all the mineral that was not worth crushing, which, after some little trouble Mr. Bland succeeded in accomplishing. The result had been most satisfactory, for in one week in September a result had been realised of a character more satisfactory than had ever been the case, the yield having been at the rate of ½ ox. of gold per ton of quartz. He might mention that in two months in the year, and September was one of them, they reckoned six weeks each, in order to make up the 52; but the returns for the four weeks in September would give a profit of 40004. and Mr. Bland expected by the next mail to remit the company 4000, for dividend account. One of the most cheering circumstances in the advices was that at the deepest part of the mine the yield was the best, indicating that the mine would hold in depth; and Mr. Bland stated "that almost every portion of the mine the yield was the best, indicating that the mine would hold in depth; and Mr. Bland stated "that almost every portion of the mine that devery was working well, and everything was going on as satisfactoriy as possible. He (the Chairman) impressed u

chinery was working well, and everything was going on as satisfactorily as possible. He (the Chairman) impressed upon the shareholders to always bear in mind the fact that they would be subject to fluctuations of yield. He then stated that the special object of the present meeting was to elect two directors in the room of Sir Charles Rich, Bart., and Capt. Vetch, R. E., resigned in consequence of Ill-health.

Mr. WESTBY proposed Mr. J. R. M'Donnall and Mr. MOOR proposed Mr. E. W. Wingrove as directors.

Mr. FREWER was informed that the gentlemen proposed for election had the support of the board, and he felt bound, to do justice to those gentlemen, to believe that, in selecting two names from a list of 600 shareholders, they had chosen those whom in their judgment were best calculated to fill the vacancy. But there was one matter, with regard to a clause in the Deed of Settlement, to which he wished to advert—that the proxies must be limited to 20, which gave considerable power to the board. As regarded the company's property, he had had some communication with a gentleman who resided within a few miles of it, and his opinion was that it was not only a good property, but that it ought to pay larger dividends than 10 per cent., but he (Mr. Frewer) pointed out to his friend it was 10 per cent. upon the whole of the capital that had been expended. His friend spoke in the highest terms of Mr. Bland.

The CHAIRMAN said that the Deed was in accordance with those prepared at that time, and he could not apprehend that it was inserted with the view of monopolising the power over the whole company. It was a point with regard to which the directors were perfectly indifferent.

The cames of the proposed directors having been ballotted for, they were declared unanimously elected, and Mr. Alfred Cobbett was elected a trustee.

LAGUNA SILVER MINING COMPANY

LAGUNA SILVER MINING COMPANY.

An extraordinary general meeting of shareholders will be held on Tuesday, for the purpose of receiving the report of the committee on increasing the capital.

The eport states that they can see no reason to doubt the exceeding richness of the mine, nor that the undertaking, if carried on with perseverance

and energy, will meet with a successful issue. The sum of 5924l, 12s. 1d. had been expended upon the mine, of which sum 3904l, 12s. 1d. was the proceeds of silver which the mine had yeleded; considering the mine to be a new one, the portion of this outlay contributed by the shareholders for the heavy expenses attendant upon its development has been very small. To carry on the works of the mine, and to give it a fair chance of proving itself to be of the great value which it is represented, and which the results shown so far tend to support, the committee have decided on, and now submit to the consideration of the shareholders, a plan for increasing the capital of the company, and thereby raising an amount sufficient for the prosecution of the works. It is evident that without additional funds the mine cannot be properly developed, and made the remunerative concern which they believe it will uitimately prove to be. The plan proposed by the committee at once releases the present shareholders from their present liability to an additional payment of II. 10s. per share, and affords them a ready means of furnishing sufficient funds to make the undertaking remunerative; should they, on the other hand, decide on abandoning the concern now; after so much has been expended upon it, the result will be that, according to mexican law, the mine will revert to its original owners, and not only will the Money spent upon it be thrown away, but the shareholders will be liable to be called upon for the amount still unpaid upon their shares, to meet the expenses of liquidation. The present number of shares in existence, upon which 3t. 10s. per share has been paid, is 1483, and upon these there is a further liability of it. 10s. each. It is, therefore, proposed to reduce the present existing shares to the value of 1t. each, they have a substitute of the shareholders will agree to subscribe proportionately to the number of shares now held in each case. By the new plan, this liability will be reduced from 1t. 10s. oil. to neach share

PROVIDENTIAL ESCAPE.—Mr. GEORGE HENWOOD, of Tritonville Avenue, Sandymount, the well-known mining engineer, sub-editor of the late "Irish Industrial Magazine," had a very narrow escape from being among the unfortunate sufferers in the steamer Ceres. Mr. Henwood had been in Devonshire, and intended to have joined the ship at Plymouth. The weather being severe, he preferred going by rail to Falmouth, to shorten the voyage. On his way to the vessel, he by accident met Capt. Tonkin, of the Ellen United Mines, who much wished his opinion on a recent important discovery in these mines. By the inducement of a liberal offer, Mr. Henwood consented to remain, and his life was probably saved, as in an hour or two he would have been on beard. So convinced were Mr. Henwood's friends of his loss, that they actually sent a special messenger to the scene of the wreek to endeavour to identify the body. The crew gave so correct a description of his person, and one of the unfortunate decased so closely resembled Mr. Henwood's carte de visite, that preparations were actually made to disinter the bodies, to remove his to Dublin for interment, and a notice of his decease was sent to a London journal with which Mr. Henwood was busily engaged in exploring the depths of a Cornish mine in a remote district, and never heard of the misfortune until his return to Falmouth, on the following Friday, to take the vessel for Dublin, where he arrived on Monday, to the great joy of his family and friends.—Frish Times.

[It will be seen by the above extract that the fears we expressed last week for the safety of our correspondent, Mr. George Henwood, were fortunately groundless. It appears that Mr. Henwood, little aware of the excitement his absence was creating, was busily engaged at the Ellen United and other mines. Fortunately for him and his family, indeed, was it that the discovery at these mines was sufficiently attractive to induce him to postpone his voyage. We had information similar to that we published from other sources, and were reall PROVIDENTIAL ESCAPE .- Mr. GEORGE HENWOOD, of Tritonville

and convince him that his endeavours are duly appreciated.]

[ADVERTISEMENTS.]

From Mr. EDWARD COOKE:—There has only been a moderate amount of business done during the week, and prices in some instances more favourable to purchasers. If advantage were taken by parties having spare cash of those temporary lulis in the market by buying at reduced prices, it would result in a large return for their capital. There are several mines that could be named in which there will be a considerable rise in price. PRINCE OF WALES shares have been dealt in to a fair extent. This mine is decidedly the most important and promising young copper mine in the Devon Great Consols district; and, as stated in the Journal last week, it is a very significant fact that the Chairman of those splendid mines has bought a very large interest in the Prince of Wales Mine. If the lode in the 55 fm. level proves as good as in the 45 the mine will be established, in all probability, as a permanent and profitable concern. Certainly no such a discovery has been made in the castern part of Cornwall since the discovery in East Carad m, a few years ago. About 100,000, has been divided by the shareholders in that mine in dividends. Let us hope the same results may be realised by the shareholders in the Prince of Wales Mine. Will consider 20t, per share an unreasonable price. Owing, however, to the general duless the shares have receded in the market. This should only tend to stimulate parties to buy. The chances of obtaining a great mining prize in West Caradon are very great, and I strongly advise a few shares being held. It is not like buying into a concern with the responsibility of heavy liabilities hanging over shareholders. The company is entirely free from dobt, and with a considerable credit balance, so that not only are there assets above all liabilities, but there is not the least prospect of any call for many months to come. In the meantime, there is not the least prospect of any call for many months to come. In the meantime, there is not th

have receded, without any legitimate cause, and they should be sought without delay, while they are low.

From Messrs, WARD and JACKMAN:—The importance of accurate information as to the locality, operations going on, and financial position of mines is a necessity, inasmuch that without it investors would be unable to form an opinion as to their merits as an investment; indeed, their conduct would be entirely speculative. Fortunately, this information is easily accessible, but a knowledge of strata and lodes being requisite to form a proper opinion of the merits of any mining undertaking, advice should be sought of those practically conversant with mining pursuits. Now that the facilities of travelling are so great, the intending investor should visit the property, the situation of many, indeed most, of our mines in Devon, Cornwall, and Wales being the most picturesque; pleasure could thus be combined with business. We have recently had inspected for us by a disinterested and practical agent of great experience a mine situated in the parish of Beerferris, on the banks of the Tamar, in the county of Devon, and its name is called after that lovely river. The NEW TAMAR SILVER MINE is situated in an acknowledged good mineral district—in fact, the property, in a geological point of view, is all that can be dosired. The success at Tamar Consols and South Tamar Mines is abundant proof of this fact, and the lodes of the latter run through its entire length. The property is held under z. grant for 21 years, at 1-15th dues, and is not subject to any other rental. There is a stream of water of sufficient capacity for condensing or dressing purposes running through the sett, and the facilities of carlage are great, timber is abundant and cheap, the mine is being worked at an assy cost, and we can'didly believe offers more than usual temptations to speculators. The shares have changed hands this week at from % to 1½. At WEST 97591. 4s. 10d. carried to credit of next account. The mine in every respect is in a most prospercus state, with every probability of a long continuance.

THE CHINA-CLAY TRADE.—One of the St. Austell china-clay mer-chants removed during one week recently to the shipping port the enormous quantity of 1500 tons of clay from two of his works only.

COLLIERIES AND COLLIERS.—A series of papers bearing this title ve recently appeared in the Mining Journal over the signature of "H.:" and COLLIERIES AND COLLIERS.—A series or papers bearing this trile have recently appeared in the Mining Journal over the signature of "H.;" and as the fact of their publication having extended over many weeks may have prevented the arguments adduced from being appreciated to the extent they deserved, the author. Mr. W. B. Higgins, has carefully revised the whole series, which is now printed in the convenient form of a pamphlet, entitled "Collieries and Colliers: or, how to determine the Quantity of Coal in the British Coa Fields," which will be forwarded from the Mining Journal Office, on receipt of 18 starme.

CURE (THIS WEEK) OF SEVERE COUGH BY DR. LOCOCK'S PUL-MONIC WAFERS.—Mr. Malcom, publisher, Christian News, Glasgow, writes, Nov. 14, 1866: "My mother had a very severe cough, and tried almost every-thing without effect, and we were astonished to find that the second night after using the wafers her cough was removed." They give instant relleft to asthma, consumption, and all disorders of the lungs. Sold by all chemists.

consumption, and all disorders of the lungs. Sold by all chemists.

Holloway's Pills—THE Grand Secret.—With the fogs and foul vapours of winter ill-health will creep in unless the blood from time to time be purified, and noxious matters expelled from the body. In this matter the public may be its own physician. Holloway's pills may be purchased at artfiling cost, instructions for taking them will be furnished with the pills, and a little attention, with a few restrictions, will enable persons to keep themselves in health under very trying circumstances. These pills act as alteratives, tonics, and aperients. Holloway's medicine should find a place in every house and home, where it should be ready for instant administration when the slightest symptom gives warning of approaching indisposition.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

BOSWORTHEN AND PENZANCE CONSOLS.—R. Pryor, Thos. Delbridge, Nov. 22: Jones's new shaft is now down about 5 fms. below surface, the sinking of which is being pushed on with all possible speed.—Bosworthen Lode: The lode in the shallow addt level, west of Jones's shaft, is 3 ft. wide, worth 6l. per fathom. The lode in the stopes west of Harvey's shaft is worth 5l. per fm.—Cambrean Lode: The meu in the adit level, driving north of Daniel's shaft, are at this time cutting through the lode in order to ascertain its size and value; this end is now just under the old workings, from which large deposits of tin has been raised.

has been raised.

BOTTLE HILL.—J. Eddy, Nov. 22: South, or Copper Lode: The lode in the 12, west of cross-cut, is now about 3 ft. wide, more settled than we have found it for the last 2 or 3 fms. driving, and now producing good stones of tin as well as copper ore. As far as I can judge by the nature of the ground in the present end, we have every reason to expect a speedy improvement in this direction. The lode in the same level, driving east, is about 18 in, wide; the last taking down not quite as rich for copper, but producing more tin. I should say the lode is now about the same in value as when reported on last, taking both copper and tin into consideration—say, now worth about 121, per fm. We have commenced to drive the 24 west on this lode, and hope soon to get back under the shoot of ore we find gone down in the bottom of the 12. The lode in the stopes on the main lode is still large, from 8 to 9 ft. wide, tinny throughout; but, taking the whole mass of stuff into consideration, we find the produce for the present rather low for the present price of tin.

BRONFLOYD UNITED.—Thos. Kemp, Nov. 21: The stopes above the 52 continue to produce about 22 cwts. of land per cubic fathom. The new shaft is still in hard ground, but the intervening ground between it and the rise from the 52 is now less than 2 fms. We have 40 tons of lead for sale to-morrow.

BRYNANTLECH.—W. Wasley, Nov. 22: Lewis's shaftmen continue to make good progress in sinking. I have not been able to put down the hand-pump this week, but shall do so early next.

BRYN GWYN.—H. Nottingham, Nov. 20: The level driving south-west from the middle of incline, east of shaft, is without change since my last; the same may be applied to the lower level driving south-west from shaft being unproductive, I have set the pare of tributers that were last working there to try the old workings in the bottom of the old workings south-west from shaft being unproductive, I have set the pare of tributers that were last working there to try the old workings in the bott has been raised.

BOTTLE HILL.—J. Eddy, Nov. 22: South, or Copper Lode: The lode in the BOTTLE HILL.—J. sow about 3 ft. wide, more settled than we have found it

d this month, 73 tons.

FRAL MINERA.—T. Hughes, Nov. 22: Victoria Engine-shaft: The 40 without alteration, with this exception—more water issues from the fore-which I consider very encouraging. The stopes in back of the 60 east

without alteration, with this exception—more water issues from the fore-which I consider very encouraging. The stopes in back of the 60 cast little lead, and very promising. RA UNITED—J. Davies, Nov. 21: The stopes in back of the 50 continue uce their usual quantity of lead. The lode in the shaft continues large omising, worth for lead 30 cwts, per fm. The branch lode in the winze from the 30 to the 40 has improved in value from 15 to 20 cwts, of lead

staking from the 30 to the 40 has improved in value from 10 to 20 cwts, of reau per fathom.

CRENVER AND WHEAL ABRAHAM.—Wm. Kitto, Nov. 22: We have cut into the lode at the 80 cSt. George's shaft/4 ft., through a good course of ore, and no south wall reached: the lode will yield, so far as we can see of it. 7 tons of ore per fm, and worth 30!. In the 70 fm. level end, east of St. George's shaft, the lode is 2½ ft. wide, and looking better for ore. In the 60 fm. level end east the lode is 1½ ft. wide, and will produce I ton of ore per fm. I purpose at once to clear up St. George's shaft below the 80 to get to the next level, to ascertain if the lode is cut at that point, which is a very im cortant object. We shall sample next Tuesnay fully 130 tons of copper ore. I shall forward by train this evening a small box of the ore from the lode at the 80. The engines and pitwork are working well, going about 10 strokes per minute between them both. rork are working well, going about 10 strokes per minute between them b CROWAN AND WENDRON.—R. Reynolds, Nov. 29: The operations agine-shaft are suspended, and the two bottom lifts drawn to surface, seen are engaged raising stone and taking out ground for a water-wheel. Y Thursday next the cutting down of the adit shaft, on the tin lode, w

engine-shaft are suspended, and the two bottom lifts drawn to surface. The men are engaged raising stone-and taking out ground for a water-wheel. I hope by Thursday next the cutting down of the adit shaft, on the tin lode, will be completed.

CUDDRA.—F. Puckey, A. Cundy, Nov. 21: Our accident is repaired, and the engine resumed working on Thursday evening last. We have now a new sweep rod and crank fixed, which are of much greater strength than the former ones. During the stoppage of the engine the water rose to the 103, covering our stopes, and thereby preventing the raising of tin. The water is now drained from the 117, and the men have this day resumed their work in the back of that level. Good progress is being made in forking the water, and (all being well) the mine will be again in fork to the bottom by the end of the present week. There is no alteration to report in the stopes or any other part of the mine.

DALE—R. Niness, Nov. 19: The workings on the Pipe vein have been carried on the same points as when Mr. Richards was here, but I have more hands een sinking on the incline of the vein, as well as driving, but we have done no direct sinking since No 11. winze was suspended, My object for getting on a sfast as 1 could northward was to prove the vein as much as possible in that direction, as here the voin sometimes looked most promising, and yielded pretty well for lead, but at intervals becomes much more mixed with spar and blende, which are good indications of lead; and, besides this, the millistone grit lies in this direction, in connection with which large deposits of ore are generally found. But, it has been noticed from the commencement that every branch or vein we have from time to time fallen in with takes a north-west course, and is undoubtedly connected with the new Pipe vein we cut in driving on Johnson's lode in the 24, in the old mine; and, from the convincing proofs we have had, this new Pipe vein is unquestionably connected with the Lum vein, which was the principal object that the mine f

the 100 west, saving work; the 90 east, poor; and the 90 west, poor: The 70 east is worth 51. per fm.—South Lode: The 100 east is poor 51.; the 70 east, poor; the 70 west, 81.; and the 70 east, on south

. per fm. DARREN.—Nov. 20 : Taylor's Shaft : In the 104 east the lode is 2 yards EAST DARREN.—Nov. 20: Taylor's Shaft: In the 104 east the lode is 2 yards wide, not looking so well as when last reported, being disordered by broken up ground, now producing about 6 cwts, of lead ore per fm. In the winze sinking under this level the lode is 4 ft. wide, and producing 134 ton 6 ore per fm. In the 92 east the lode is 3 ft. wide, producing 134 ton 6 ore per fm. In the 92, west of boundary, the lode is 3 ft. wide, still yielding stones of ore at times, but not to value. In the 80 east the lode is 7 ft. wide, still yielding stones of ore at times, but not to value. In the 80 east the lode is from 3 to 4 ft. wide, yielding 134 ton of lead ore per fan. In the 68 east the lode is getting more settled, and kindly for an improvement. In the level west of the cross-cut, 20 fms. east of Taylor's shaft, the lode is 1 yard wide, producing 1 ton 0 for per fm.—Reed's Shaft: In the 80 west the lode is 2 ft. wide, composed of a light clay-slate, carbonate of lime, but unproductive for lead ore at present. We shall sample on Tuesday next 65 tons of good quality ore.

f lime, but unproductive for lead ore at present. We shall sample on next 65 toos of good quality ore. GUNNISLAKE.—James Phillips, Nov. 22: The lode in the shallow addr and looking very kindly for a good improvement; it is at present car-eader of rich black and yellow ores in, wide. There is no other change

to advise you of.

EAST PROVIDENCE.—J. Nancarrow, W. White, Nov. 19: Boorman's shaftmen are getting on well with fixing the lift at the 12, and we expect it will be
working in two or three days. The 89 east is improving, and opening out good
tribute ground. The winze below the 70 is holed to the 82. The 70 east improves as we drive. The 50 east is worth 41, per fm. We have put more men in

working in two or three days. The S2 east is improving, and opening out good tribute ground. The winze below the 70 is holed to the 82. The 70 east in the 50 and 70 fm. level ends, so that we shall now open tribute ground faster than before. The pitches throughout the mine look just as they did at the setting.

EAST ROSEWARNE—John James, Nov. 22 in King's shaft, sinking below the 85 fm. level, the lode is 9 inches to 1 foot wide, worth 141, per fathom for longth of shaft (10 feet). In the 85, west of shaft, the lode is 18 inches wide, producing good stones of ore. In the 43 fm. level, driving east of Hallett's shaft, the lode is 48 inches wide, producing a little tin and copper ore. In the 43 fm. level, driving east from King's cross-cat on the engine lode, the lode is disordered; we expect it to be producitive as we approach the elvan course. The stope in the back of the 85 east are worth on an average about 81, per fathom. The stope in the back of the 85, seat of Shaft, is worth 41, per fathom. The stope in the back of the 75, east of shaft, is worth 42, per fathom. The stope in the back of the 75, east of shaft, is worth 46, per fathom. The stope in the back of the 75, east of shaft, is worth 61, per fathom.

EAST ST. JUST UNITED—J. Carthew, P. Casley, Nov. 20: Further opening on the lode, which we have reported as being cut in the 20, south from the engine-shaft, and which we at first believed to be one of the east and west lodes, tends to show that such is not the case, but that it is a change in the Guide lode itself, on which we have now going south a kindly channel of tin ground full 2 ft. wide, very much like the Wheal Gwl lode in the St. Just United, from which large quantities of tin have been ralsed, and which at the present moment has a most promising appearance; the bearing of these two lodes is the same, we only trust their value will be equal; just now the prospects are most encouraging. In the 10 south, which end was not previously tin-producing, we cut into tin ground on Friday last; this end

back of the 180, east of Barkell's winze, the lode is 5 feet wide, producing saving work. In the costeaning department several branches have been met with, from which we are in hopes the lode will soon be reached.

FRANK MILLS.—J. P. Nicholls, J. Cornish, F. Cornish, Nov. 21: There is no change in the ground in the engine-shaft, and the same satisfactory progress continues to be made in the sinking. The east lode, in the 130 north, is yielding from 3 cwts. to 4 cwts. of lead ore per fathom, and we are daily expecting an improvement in the end. We have taken down the west lode in the 130 north, which contains only occasional stones of lead ore; the ground, however, is very good, and highly congenial for the existence of large quantities of lead ore. The stopes in the back of this level, the east lode, are yielding I ton and ½ ton of lead ore per fathom respectively. The east lode, in the 115 north, in disordered, and poor at present. Nothing has been done in the 115 north, on the west lode, since our last, the men having been engaged about other necessary work. The three stopes in back of this level are yielding about the same quantity of lead ore as for some time past, and the same remark may be made of the stopes in the back of the 100. The stope in the back of the 72 is yielding 7 cwts. of lead ore per fathom. We have commenced to drive south from the western cross-cut, north from engine-shaft, where the lode will yield 7 cwts. of lead ore per fathom. The tribute department is much the same as for some time past,—P.S. We are making capital progress with the erection of the whim, engine-house, &c.

FURSDON.—J. Collins, Nov. 22: The rise in the back of the 31 west is 9 ft.

A constraint of the description. The stope in the back of the last nor how western cross-cut, north from engine-shaft, where the lode will yield 7 cwts on the western cross-cut, north from engine-shaft, where the lode will yield 7 cwts on the dore per fathom. The tribute department is much the same as for some shaften chose. We are making capital progress with the erection of the whill state 21 cast is being driven 3 fms.; the ground has the same as for some shaften chose. So we have the level: the lode of the former value—9. per fm. The cross-cut south at the 21 cast is being driven 3 fms.; the ground has the same appearance as the capel of the lode at the level above, and yielding good stones of ore. Judging from the capel and the lode at the 11, we may expect to find the lode south. The winze in the bottom of the 11 cast is 6 ft. below the level, where we have two branches—one north and the other south; the south branch is taking a slight underlie south; the two together are worth full 30. per fm. We same carrying a wide winze, in order to carry both branches, consequently we shall not make so much progress in sinking. The cross-cut south at the 1 certain of the stope of the state of the stat

be suspend if for a month, till the shaftmen are deep enough, and a lodge cut out, when sufficient room will be provided for the whole of the operations, vigorously pushed forward, in the bottom. The sump shiring below the 60 is somewhat improved for lead, and we hope to hole it to the 72 fathom inverted before the mol of the present accurate the control of the control of the lode in the size of the control of the lode in the size of the control of the lode in the size of the lead of the lode in the size of the lead of the lode of the lode in the size of the lode in the size of the lode in the low of the lode in the size of the lode o

canning a little copper ore. Our water is about the same as it has been for some weeks past.

HARWOOD.—J. Race, Nov. 16: There is no alteration worthy of notice in the stopes in the north string since last week, except No. 3cast, which is a little poorer to-day, worth about 2 tons of ore per fathom. The level going east in the vein is poor at present. Making the wagon-way between the vein and the north string is progressing very favourably, and we shall finish bringing out the work at Scarhead in a week or teu days. With this I send you a sample of ore for sale, of which we will have between 20 and 30 tons ready for market about the middle of December, if all is well.

GUNNISLAKE (Clitters).—W. Skewis, J. C. Seccombe, Nov. 21: The men are making good progress in driving the 23 cross-cut south towards the lode to the west of the cross-course. The lode in the 12 west 12 ft. wide, worth 12!, per fathom; as this end is going into whole ground, if it continues, as we believe it will, a valuable piece of ore ground will soon be laid open. The 12 east, on the north lode, is yielding good saving work for copper, and we calculate to intersect the lode to the west of the cross-course at the 23 before the next report.

GWYDYR PARK CONSOLS.—Wm. Smyth, Nov. 20: Since the last general meeting we have driven Gwyn Lilion add the south, on Owen's lode, 2 fms. 8 ft., when we cut in east and west, which I think is the south-east and west lode we were driving to cut. I changed the men the beginning of this month to drive on its course west, so as to got under the shaft; we have driven 8 ft. on it, and for that distance it has been small and disordered by branches of spar crossing the end, but it is not letting out more water than it has done, and from its general appearance I expect it will soon get more regular; the ground is easieg for progress than when we commenced; now driving by four men. We have driven the adit north, on Owen's 2 fms. I ft. 6 in. through a large kindly lode; at present about 3 ft. wide, of spar, gossan, mundie, blende, and spots of lead ore, and letting out a good deal of water; driving by four men. We also drove ore, and letting out a good deal of water; driving by four men. We also drove ore, and letting out a good deal of water; driving by four men. We also drove ore, and letting out a good deal of water; driving by four men. We also drove ore, and letting out a good deal of water; driving by four men. We also drove ore, and letting out a good deal of water; driving by four men. We also drove ore, and letting out a good deal of water; driving by four men. We also drove ore, and letting out a good deal of water.

HINGSTON DOWN CONSOLS.—Thos. Richards, Nov. 21: The 140,

the Winn Tunitib (st. Just).—J. Carthew, Nov. 22: We are still continuing the ends but east and wer of the oid shaft, and we find the tin ground taken away in the backs by the old miners. The lode is holding away, and proving much better as we approach the intersection, at which point great returns of tin are expected.

MINERA UNION.—W. T. Harris, Nov. 22: Douglas shaft is sunk about ity ards below the 40 yard level. The ground in the bottom consists of cheri, internixed with a little lead, and favourable for progress. The ground in the 40 yard cross-cut is the same as last reported.—Brabner's Shaft: The ground in the 40 yard cross-cut is the same as last reported.—Brabner's Shaft: The ground in the cross-cut in the 50 yard level to intersect the red vein, consists of black lime stone and shale. We expect to intersect the vein in about 5 yards further driving. The clearing of the 60 yard level north progresses satisfactorily, and find occasionally good stones of lead in the stuff. The ground in the big cross-cut, driving east, in the same as for some time past—white limestone.—William's Evel is favourable for progress.

MOLLAND.—T. Bennetts, Nov. 21: We have still a very large, fine-locking lode in the 72 east, and no north wall; the part we are carrying is 14/5 ft. wide, composed principally of gossan, or decomposed iron and spar, with a little quartz and prian, associated with grey and yellow copper ore; we shall soon get this level up under the winze sunk below the 62 if all be well. The lode in the winze sunk below the 62 if all be well. The lode in the winze sunk below the 62 if all be well. The lode in the winze sinking below this level is not quite so large as last week; it is now 1ft. wide, composed principally of quartz, associated with a small quantity of iron and grey copper ore, presenting altogether a promising appearance, though not rich.

NANGHLES.—J. Rowe, Nov. 20: We have driven the 150 cross-cut 3ft. south, and the state of the past of the past the point, as the lode is poor in the 120, right

NEW TRELKIGH.—S. Michell, Nov. 22: There is no change of importance to notice in the mine for the past week; everything is being pushed on with the utmost dispatch.

NORTH DOLCOATH.—J. Paull, Nov. 21: The 100 fm. level is driven 4 fm; of in. cast from engine-shaft; in driving this distance the lode has greatly improved in appearance, the leading part being now about 2 ft. wide, composed principally of quartz and white iron, impregnated with rich spots of ruby silver, opper, and blende. In the cross-cut south we have not met with any more lode since last report, but still continue to meet with seams of copper and blende.

NORTH DOWNS.—F. Pryor, J. Grenfell, Nov. 19: Setting Report—Bennett's Shaft: The 70 to drive cast of this shaft, by six men, at 91. 5s. per fm; this end looks as if it was getting near the elvan course; and in addition to the lode, which is 18 in. wide, producing stones of ore, there is a leader of ore 2 in. wide forming on the south wail of the lode, and the character of the ground has very much altered for the better within the last month. A winge to sink below the 60, east of this shaft, by four men, at 51. 10s. per fm; producing stones of ore.—King's Engine-shaft: The 40 to drive east of this shaft, on the south lode, by four men, at 51. 10s. per fm; m; the lode is worth 10l. per fm. No. 2 stope, in back of this level, by four men, at 31. Iss. per fm; which we shall communicate with the 40 this level, by four men, at 31. Iss. per fm; which we shall communicate with the 40 this week, when we shall put the men to stope in the bottom of the 40, where the lode is also worth 8l. per fm. The 50 to drive east of cross-cut, on New Brigan lode, by two men and two boys, at 61. 9s. per fm. The 50 to drive east of cross-cut, and Good-fortune lode, by two men and two boys, at 61. 9s. per fm. The 50 to drive east of cross-cut, on one of the sale worth 8l. per fm. No tribute setting this month. In the course of the last month we have taken out one of our boilers mow in first-rate working order, and will n

if from the pumping-engine, and replaced it with another equal to new. In this, we have put in a new air-pump and bucket, so that our engines are now in first-rate working order, and will not require any further repairs (of consequence) for several years to come.

NORTH JANE.—J. Rowe, Nov. 21: We have got through the civan in Leed's engine-shaft; the killias is favourable for sinking through. We shall now make yery much greater progress towards the lode.

NORTH PHEENIX.—J. Secombe, J. Martin, Nov. 16: Setting Report: The left to drive west in the killias, on the south side of the lode, by six men, at 12: per fathom; ground more favourable than for some time past. The left to drive west in the killias, on the south side of the lode, by six men, at 22: per fathom; we continue to make good progress in driving this level. To sink the winze in the bottom of the 140 west, by four men and two boys, at 32. per fathom; this winze is now mine for one month at 33. 8.

OKEL TOR.—John Rodda, Nov. 22: There is nothing new in the 80 or 50 cross-cuts. The lode in the 65 cast is composed of capei, quartz, mundic, and good stones of ore, looking very promising. The stopes in back of this level are yielding as follows:—Ollver's, 2½ tons; Stile's, 2 tons; Peardon's, 3 tons; and Hode is improved, and will produce 3 tons of ore per fathom. Rate's stope, in back of the 80 cast, continues to produce 4 tons of ore per fathom. Reynoids stope, will yield 3 tons, and Tregoning's will yield 2½ tons of ore per fathom, and Hole's stope, in the bottom of the 50 cast, is producing 2½ tons of ore per fathom. Burley's atope, in the bottom of the S0 cast, is producing 2½ tons of ore per fathom. and Hole's stope, in bottom of the same level, will yield 1½ ton of ore per fathom. The lode in the winze sinking in bottom of the 30 cast is looking just the sampling. OLD GUNNISLAKE.—H. Rickard, Nov. 22: Our progress in sinking parkers shaft since last report has been retarded, in consequence of a breakage, and having to take down and rebuild the bob-pit

201. per solid fathom. In the 120 east winze the lode is worth 121. per fm. . In the 120 west we have cut through Skimmer's lode it. wide, worth 91. per fm. In the 100 east the lode in the end is worth 81. per fm. The lode in the rise in line back of this level is worth 61. per fm.—Cobbler's: In the 110 west the lode is improving in appearance, now worth 42. per fm. The lode in the bottom of reast is worth 161. per fm. In the 90 north cross-cut the water has much increased and large stones of rich copper ore appear in the cross-course; we expect this is near an important lode. The main-rod of the pumping-engine broke at the 63 on Thursday night, causing no other damage; we expect to get all right and working on Sunday.

PRINCE OF WALES.—J. Gifford, W. Gifford, Nov. 19: In the 55 we are driving south by six men; ground favourable; also north by four men. In the 45 east we have met with a cross-course, and in it is in., and not through it. In the rise in back of this level the ground is favourable. We shall continue rising by the side of the lode, to communicate with the winze. In the 45 west the lode is 5 ft. wide, worth 1½ to no for eper fathom, and saving work for tin. In the winze in bottom of the 30 east the ground is more favourable for sinking. We hope to have full 69 tons of ore to sample by end of next week.

REDMOOR.—T. Taylor, Nov. 22: We have no particular change in the minsce last report. The ground in the engine-shaft is getting more compact, and the men are making all speed in sinking, We are now about 5 fathoms below the level. In the 52 fm. level we are still breaking some good black copper and sliver-lead ores.

REINNIE LAXEY.—W. H. Rowe, Nov. 20: The ground is more mineralised.

size rever. In the celf Im. Iteed we are still breaking some good basic copper and pRINSINI LASEY.—W. H. Row, No. 70: The ground is more minerallized in the bottom of the engine-shaft, now wis flux below the 10: some rich attrage the bottom of the engine-shaft, now wis flux below the 10: some rich attrage to the vint in depth of the lower we shall consecut to the vint, which I allow the Company of the control of the contro

alight, the ground stands well without timber, and with the construction of the new incline down through the old workings, the mine may be worked with a moderate expenditure. At the 10 fm. level four men are cross-cutting on the run of the stide which has turned the lode. At the reduction works is heads of stamps are at work. Other surface operations are progressing satisfactorily. WEST CARADON.—W. Johns, R. Richards, Nov. 21: In the 170 fm. level cross-cut south we have been cutting during the past week branches, the castern side of the heave containing good stones of copper ore, which augurs well for the main part of Downing's lode. The branch or lode in the 170, both east and west of cross-cut, is opening out pretty well, Vivian's lode in the 170 west is presenting an improved appearance. Clymo's lode in the 92, west of cross-cut, is without alteration; lode I foot wide, spotted with ore. In the 92 fm. level cross-cut south, towards Jope's lode, the ground is rather harder for progress. We have no alterations in the 104, the 116, or the 128, on Jope's lode, since our last report. The lode in the 70, on the north part of the Menadue, has made a spilce, consequently is not so well; this, however, we regard as only temporary, as this lode is subject to such changes; and in order to lay open this ground more speedily, we have taken up an end about 30 fms. east of the latter, which we are looking forward to with a view of laying open tribute ground. We are busily engaged costeaning, but up to this date we have not fully decided on what lode we shall sink the new engine-shaft.

WEST MARIA AND FORTESCUE CONSOLS.—William Skewis, J. Donnal, Nov. 22: The Capel Tor lode is not yet reached in the 60 cross-cut, north of Maria engine-shaft; the ground has much improved, and we are daily expecting to cut it, when you will be immediately advised. The West Maria lode, in the 60 east, has not been taken down for a fortnight; this will be done in a few days, when we hope to see an improvement; this lode, in the 50 east, is ove

from the cross-cut in the 174, but its general character is much the same as for the past two months, containing iron, capel, quartz, prian, mundic, and some grey and yellow copper ore.

WEST WHEAL KITTY.—W. Thomas, jun., Nov. 20: In the adit end driving west of the western shart, on the north part of the lode, the lode is 5 ft. wide, and worth 12l. per fm. In stoping the back and side of the level behind the end the south part is improving; the entire stope is worth 22l. per fm. In the upper level it is probable we have cut the north part of the lode, which is 6 ft. wide, having a masterly appearance, but at the point of intersection it is disordered by a slide; however, we have commenced opening on it westward, and anticipate having a good lode in a few fathoms driving. The cross-cut at this level is driven 2½ fms. beyond this part of the lode, and will intersect the south or flat part in about 10 fms. driving; it e ground is speedy; price 5l. per fm. Altogether the appearance and prospects of the mine never looked better.

WEST WHEAL TOLGUS.—Nov. 21: Taylor's sumpmen have commenced sinking Taylor's engine-shaft again, at 60l. per fm. In the 8s east the lode is 2ft. wide, producing 2 tons of ore per fathom, worth about 8l. per fm.; price for driving, 8l. 10s. per fm. The lode in the 85 west is 4½ ft. wide, producing 5 tons of ore per fm, worth 22l. per fm. We have holed the rise over the back of the 8s, and for the present we have put the men to stope the back of the 8s west for a week or two, against we get the place in course for them to sink a winze in bottom of the 6s west. The lode in the 75 fm. level west is 2½ ft. wide, chiefly consisting of spar, with spote of ore. In the 75 east the lode is 2ft. wide, producing 1 ton 6 ore per fm., and 1s promising for improvement, worth 3l. 10s. per fm.; price for driving, 8l. 10s. per fm. In the 85 west the lode is 2ft. wide, producing 5 tons of ore per fm., and 1s promising for improvement, worth 3l. 10s. per fm.; price for driving, 8l. 10s. per fathom. We have fi

f flookan and soft spar, with spots of ore.

WHEAL BULLER.—James Inch, Nov. 21: Stevens's shaft, sinking under the of m. level, is worth for tin 10f. per fathom. The 80, west of this shaft, is worth 61 m. per fathom. The 70 east is producing in, but not to value.—Hocking's Shaft: The 80 east is worth 51, per fathom. The 70 east is worth 61, per fathom. The 70 west is worth 51, per fathom. The 70 west is worth 61, per fathom. The 70 west is worth 61, per fathom. The 70 west is worth 61 per fathom.

tin, but not to value.—Hocking's Shaft: The 80 cast is worth 51, per fathom. The 70 cast is worth 61, per fathom. The 70 west is worth 51, per fathom. The winze under the 60 is producing low quality work for tin. No alteration in any other part to notice.

WHEAL CREBOR.—I. Gifford, Nov. 20: On Saturday last the following bargains were set:—The 120 fm. level to drive west by the side of the lode, by six men, stent the month, at 61, per fathom. The 120 cast to drive by the side of the lode, by four men, stent the month, at 71, per fathom. The 10s cast to drive by the side of the lode, by four men, stent the month, at 71, per fathom. The 10s cast to drive by the side of the lode, by four men, stent the month, at 71, per fathom. The 9s cast to drive by two men, stent the month of the 10s cast to drive by two men, stent the month of the 10s cast to drive by two men, to carry all the lode, stent the month, at 41, per fathom. The 9s cast to drive by two men, stent the month, at 31, 15s, per fathom. The 8s cast to drive by two men, stent the month, at 31, 15s, per fathom. The 9s cast to drive by two men, stent the month, at 31, 15s, per fathom. The 8s cast to drive by two men to carry all the lode, stent the month, at 42, per fm. Apitch in the back of the 8s cast, by two men for two months, at 12s 6d. ton produce, and 8s. in 11. No change in any other part of the mine.

WHEAL GRENVILLE.—G. R. Odgers, W. Bennetts, Nov. 17: The lode in the 120, cast of the new shaft, is 2 ft. wide, of quarts, gossan, &c., with occasional stones of tin. The lode in the 120 west is 2½ ft. wide, producing low stamping work. In the two stopes above this level the lode is worth 51, los. and 41, 10s, per fathom. In the lode in the 100, cast of the shaft, is small; it is mixed with a hard elvan. One stope above this level cast is worth 61, per fathom. The lode in the 100, cast of the shaft, is worth 61, per fathom each. The lode in the 100, cast of the shaft, is worth 61, per fathom. In the 200 class couth above this level is worth 62, per fath

same level south it is 3 ft. wide, worth 9l. per fathom. In the 180 north it is 3 ft. wide, worth 6l. per fathom. The stopes and pitches are producing much as usual.

WHEAL NORRIS.—J. Andrews, Nov. 17: Since setting-day the 7e east has been driven about 2 fms.; in the early part of the week the lode was 20 in. wide, yielding saving work for tin, but has since improved to 2½ ft. wide, worth 10l. per fathom. The 45 east is without change.

WHEAL SPARNON.—Wm. Tregay, E. Chegwin, Nov. 17: Jardine's Shaft: The pitwork is now arranged preparatory for sinking to the 70. The stope in back of the 60 west is worth 10l. per fm. The stope in the bottom has been prevented working whilst the pitwork has been in progress; the lode there is worth 16l. per fm. In the 20 east, the rise on the new lode is not yet through the elvan; it lets down much water, and produces stones of copper ore. On the north lode we have seen two very promising looking lodes in the north cross-cut, which are letting out much water, and producing spots of copper ore; we have set men to drive west on them. In the 45 south the south lode looks exceedingly promising to make a good tin lode, and now producing good work close to the cross-course. The middle lode is a very kindly one, producing spots of copper ore near the cross-course, and we expect it to improve on driving a little beyond its influence; this lode is underlying north, and is undouttedly one of the East Carn Brea productive lodes. Belfry lode is an east and west one, and in Belfry shaft produces good stones of copper ore; there we have set two men to drive to prove it westward. In the cobaic lode we find occasional stones of cobalt, but as yet no regular course of that ore promising for its production. We have numerous lodes in this mine, many of them very promising, and some of them must be the same as have produced so largely in East Carn Brea, but the majority of them have not yet been developed in this mine, only just intersected by the cross-course, and their development is very importa

WHEAL TRELAWNY.—W. Johns, T. Grenfell, J. Pryor, Nov. 19: The sliking of Trelawny's engine-shaft is progressing as fast as the nature of the ground will admit, which is very satisfactory. In the 162, north of this shaft, the lode still holds good, worth 30t, per fin. We are taking down the lode in the lose in the 162, south of this shaft—opening out tribute ground. We have completed all the necessary work, cutting plat, &c., in the 210, at Smith's engine-shaft, and have commenced to cross-cut towards the lode, and are looking forward with intense interest to cutting the same. In the 196, both north and south of this shaft, and also in the 182, north of Chippendale's, in each of the eads we are opening out tribute ground. In the rise in back of the 108 the lode is worth 77, per fathom. We again repeat that when the communication is effected with the 78 a good piece of ore ground will be laid open. We sampled on the 13th inst. our usual quantity of silver-lead ore -55 tons.

WHEAL TREVENNA.—George Henwood, Nov. 5: Since my last visit to these mines considerable progress has been made, and I am happy to find the predictions I then made, founded on facts (not suppositions), have been fully realised, notwithstanding the greatly depreciated value of tin ores; upwards of 2000, worth of black tin, of superior quality, having been returned and sold. I consider your present mode of action the wisest and most practical that can be adopted for the welfare of your shareholders, as, whilst you are preparing to raise and return your tin ores at a very reduced cost, you have husbanded your valuable tin reserves. Some over-ardent firms would have preferred and insisted on the tin there being pulled out at any cost or terms, thus "killing the good that laid the golden eggs." Many mines I could mention adopt this false economy and then wonder why the mines do not pay. After examining the mines, I can only say everything warrants the measures you are adopting; the tin is there, or there can be no facts in nature or science on whic

The stuff drawn from it this week produced 6 cwts, of black tin per 100 sacks, worth 24l. per fathom at the present price of tin.

FOREIGN MINES.

ST. JOHN DEL REY.—The gold extracted during September was , 656 oits., worth 18,4661, 14s., and the cost was 10,2771, 16s., leaving a profit on month of 81881, 18s. There has been a good supply of labour, native and

in the 70 west; the ground is easy for exploring, and we wish to push this drive age toward's Beck's workings and cross-cut the loud, by doing which we expect some and grauwacke, but not yet through the loide - Beck's Workings: The rise above the 70 is communicated with the whice such from the 60; we shall now put in the timber to make it secure, and then push on the 70 to meet the drivago from Michael's shaft.

Capp. The push of the push of the push on the 70 to meet the drivago from Michael's shaft.

Capp. The push of the push of the push on the 70 to meet the drivago from Michael's shaft.

So final level, at Mitchell's shaft, yields well, and is a point of importance, as showing that the lode improves after getting down some depth from the floor. This is the case at this place at any rate, and we cannot but hope that other of the push of the push of the push of the push of the floor of

TERRICCIO COPPER.-Advices received of shipment at Leghorn for Liverpool of 15 tons of copper ore.

only say everything warrants the measures you are adopting; the tin is there, or there can be no facts in nature or science on which to rely; and your shareholders have only to wait until your principal points are fairly developed to ensure them a lasting and valuable property. Whether tin advances or keeps at the prosent low standard, the Trevenna Mine, from its shallowness, unlimited water power, richness, and abundance of ore, will be enabled to meet the market on the most favourable terms, and ensure the owners a dividend mine.

WHEAL UNY.—J. Coade, Matthew Rogers, Nov. 17: There is no change of importance to report on this week, except in the 120, east of the engine-shaft, where the lode is very large; we have cut into it 6 ft., but not yet through it.

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dental is crystallised carbonate of lime at the southern extremity of the claim (of 1800 ft.), terminating in whits quartz at the northern end. The inference to be drawn from the analysis of a poor specimen of this ore made by Mr. Rickard is that the silver exists chiefly in the form of sulphide, with a small proportion of chloride—the gold being in the native condition, invisible, from the very fine state of division in which it is disseminated through the mineralised portion of the ore. The general appearance of the ore is very similar to that of Coplapo, in Chili, and from which most of the Chili silver is obtained.

CHONTALES.—There are reasons to believe that unfair attempts are being made by anonymous circulars and otherwise to intimidate the shareholders; and therefore, in justice to themselves, they should follow the advice given by Earl Nelson (the Chairman), in a letter which appeared in the Journal a short time since—that they should be cautious in giving credence to any statement that does not emanate from the directors.

CALDBECK FELLS MINING COMPANY (LIMITED).—The numerous shareholders in this company will learn with much surprise that at the meeting held at Wigton, on Wednesday, the local directors passed a resolution to remove the registered offices of the company to Wigton, and this without any previous notice whatever. They had previously surprised the shareholders by giving notice that they intended to forfeit all shares on which the last call was owing, the shareholders by the shareholders by giving notice that they intended to forfeit all shares on which the last call was owing, they intended to forfeit all shares on which the last call was owing, notwithstanding the necessary legal notice had never been issued; but they did not carry that out, inasmuch as the meeting was adjourned for three weeks. Messrs. Foakes, Phillips, Davis, and Ward, representing the London interest (the first-named gentleman being the principal London director), attended to protect absent shareholders, but without success; but a resolution was passed for a committee of investigation. The local directors would not even allow a single London shareholder to be on it. They also expressed their intention to work the shallow levels in preference to opening up the mine in depth, notwithstanding how necessary this is to ensure permanently good results, and bring the mine into a condition becoming its magnitude and importance. The shareholders should at once take steps to prevent their property thus being sacrificed to individual interests, and, at the same time, insist upon all the directors resigning their seats at the board. Mr. Phillips, of New Broadstreet, has been appointed by the leading proprietors in London their representative, and shareholders have been requested by circular to at once communicate with this gentleman. cular to at once communicate with this gentleman.

CARNARYONSHIRE CONSOLS.-Much sooner than was expected, they have intersected a cross lode in driving the 20, on No. 1 lode, at Coedmawr Pool Mine, and Capt. Kitto states that it is yielding at Coemany Fool and, and captures are repairing the wheel, and putting down pitwork in one of the shafts there, and will be ready to resume the sinking, it is said, in about a fortnight. The driving of the new adit proceeds well. In fact, while the workings that were going on when the company took possession are as productive as they were, the new workings are in all respects satisfactory.

GREAT DEVON AND BEDFORD (COLCHARTON) COPPER MINING COMPANY (Limited) .- The copper mine and the whole of the pro perty belonging to this company, situate near Tavistock, Devonshire, was sold by auction on Tuesday last at the Auction Mart, City, London, for the sum of 5050l., by Mr. Thomas Blake, of Ross, the liquidator appointed to wind-up the company.

FOREST OF DEAN COAL .- The Farmer's Folly and Windmill Pit Colliery, in the Forest of Dean, 21 miles from Coleford, and 5 miles from Monmouth, comprising about 142 acres of unworked coal of the Coleford High Delf vein, together with the machinery and plant, were offered for sale at the Mart, yesterday, by Messrs. Gadsden, Ellis, and Scorer, but was ultimately bought in.

As will be seen in our advertising columns, Mr. H. L. PHILLIPS has been appointed managing director of the Frontino and Bolivia (South American) Gold Mining Company, and the Penhale and Lomax Silver-

MR. WALTER TREGELLAS, 122, BISHOPSGATE STREET WITHIN, continues to deal, at close market prices, in all good sound (VIDEND and PROGRESSIVE MINES, either for cash or the account. BUSINESS in the FOLLOWING MINES: Great Vor, Trelawny, Emily enrietta, Cook's Kitchen, New Clifford, East Basset, West Tolgus, Camborne an, West Frances, Westminster, St. John del Rey, Don Pedro North del Rey, de Chontales.

MR. D. STICKLAND, M.E., having had upwards of 40 years g experience in Cornwall, several years of which he has had the rement of mines therein, enables him to GIVE GOOD ADVICE

Mining, Railway, and other Shares bought, sold, or exchanged. Shares for sale in mines and quarries that will pay 15 to 20 per cent. per annum. Offices, 5, Finsbury-street, London, E.C.

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FRONTING AND BOLIVIA GOLD MINING COMPANY (LIMITED).—SHAREHOLDERS are REQUESTED to COMMUNICATE with Messrs. BARRETT and Co., 78, LOMBARD STREET, CITY, for the purpose of calling a meeting to investigate the present state of the company, the resignation of the Chairman and secretary.

O MINE, SLATE QUARRY, AND RAILWAY COMPANIES.—CAPT. C. WILLIAMS IS NOW OPEN tO UNDERTAKE LKINDS OF CONTRACTS, such as DRIVING LEVELS, SINKING SHAFTS, STRUCTING WATER COURSES, CANALS, TRAMWAYS, &c., and ECTING ALL SORTS OF MACHINERY for MINING and OTHER PURES, having on hand at all times a first-class state of miners and machinists, will proceed to any part of the world upon the shortest notice.

B.—In all cases 30 per cent. will be left in hand until the work is complete, byn-y-Wern, Tallesin, via Shrewsbury.

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Parties desirous of disposing of such works as are mentioned below are invited to send particulars; and those wishing to invest will find this an advantageous medium for ascertaining the commercial value of the concerns which Messrs.

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COAL AND IRON MINES,
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And large MANUFACTURING WORKS.

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which they consider likely to be remunerative, and they can advise parties interested in such.

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HUNT'S PATENT ORE SEPARATOR AND GOLD WASHING MACHINE.—Information respecting the above machines can be obtained on application to Mr. William Ward, 96, Bishopsgate-street Within, or Mr. John Hunt, at his works, Porthleven, Helston, Cornwall.

N.B.—Any person making or using the above machines, without previously obtaining a license, will be proceeded against according to law.

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MANUFACTURERS of STEAM PUMPING and EVERY OTHER KIND of
ENGINES, together with BOILERS, PUMP CASTINGS, and MINING TOOLS
of every description, of the very best quality. Estimates given for the supply of

The Mining Market; Prices of Metals, Ores, &c.

METAL MARKET-LONDON, Nov. 23, 1866.

COPPER. £ s. d	IRON. PER COIL.
Best selectedper ton 89 0 0	Bars Welsh, in London 7 0 0-7 2 6
Tough cake and tile ,, 86 0 0	Ditto, to arrive 7 0 0
Sheathing and sheets ,, 91 0 0	Nail rods 7 10 0-9 5 0
Bottoms	,, Staffd. in London 8 7 6-8 17 6
	Bars ditto 8 7 6-10 0 0
Old (Exchange) ,, 77 0 0	Hoops ditto 9 7 6-10 0 0
Burra Burra £86 0 0-88 0 0	Sheets, single 10 0 0-11 0 0
Wireper lb. 0 0 113	
Tubes ,, 0 1 0	
BRASS. Per lb.	Bars, common ditto 6 0 0-6 10 0
Sheetsper lb.104d	Do. mrch. Tyne or Tees 7 10 0
Wire , 8%d 9d.	Do., railway, in Wales 5 10 0-6 0 0
Tubes	Do., Swed. in London. 10 7 6-11 0 0
**	To arrive
Yellow Metal Sheath.p. lb. 71/4d81/40	1. Pig, No. 1, in Clyde 2 14 3-3 2 3
Sheets ,, 71/4d8d.	Do. f.o.b. Tyne or Tees 2 9 6-
SPELTER. Per tor	Do. Nos. 3,4,f.o.b. do. 2 6 6-2 7 0
	Manway chairs 5 10 0- 5 15 0
Foreign on the spot £21 7 6- 21 10	0 morkes
" to arrive 21 15	Indian Charcoal Pigs,
ZINC.	in London p top # 0 0 7 10 0
In sheets 28 0	o in London p. ton 7 0 0- 7 10 0
TIN.	STEEL, Per ton.
	0 Swed., in kegs(rolled)14 0 0-14 10 0
Do., bars (in barrels) 86 0	
	0 English, spring19 0 0-23 0 0
Straits	QUICKSILVER (p. bottle) 6 18 0- 7 0 0
TIN-PLATES.* Per box.	LEAD. Per ton.
IC Charcoal, 1st qua. 1 14 0	English Pig, com 20 0 0
X Ditto, 1st quality 2 0 0	Ditto, ordinary soft 20 5 0-20 10 0
C Ditto, 2d quality., 1 10 0	Ditto (WB)22 15 0-
X Ditto, 2d quality., 1 16 0	Ditto, sheet21 0 0-
	0 Ditto, red lead23 10 0-24 0 0
X Ditto 1 10 6- 1 12	0 Ditto, white27 0 0-30 0 0
Canada plates, p.ton 13 10 0-	Dieto, white 0 0-30 0 0
Ditto, at works 12 10 0	
At the Works, 1s.	to 1s. 6d. per how less

REMARKS.—We have still to record the continued depression of the Metal Market, which now approaches nearly to a complete stagnation of business. There appears to be almost a total cessation of operations in metals. If there are any orders in hand, buyers will not give them out, which, we apprehend, must arise from a complete want of confidence in the stability of their correspondents abroad, which causes them to be afraid of executing their orders, lest their position should not be stable on the arrival of the goods abroad, and the bills drawn to meet them be thus dishonoured. It is many years since the metal trade was in such a state of lifelessness, nor does there at present appear much probability of any considerable improvement taking place in the course of the current year. It would be very satisfactory to see something arising which would restore the flagging energies of the trade, and give an impetus to a more propitious state of things; but we much fear that some time must elapse before there is an entire restoration of confidence; and until this is the case, we must expect to find the metal trade continuing in REMARKS.-We have still to record the continued depression of elapse before there is an entire restoration of confidence; and uturithis is the case, we must expect to find the metal trade continuing in a drooping condition. American orders have somewhat improved during the week, though they are by no means equal to the usual amount of business done with the United States at this time of the year; still we hope that this improvement may continue, as in the present state of the metal market any kind of improvement whatever

· At the works, 1s. to 1s. 6d. per box less.

very acceptable.

COPPER.—The market for this metal still continues in a very de pressed condition, and transactions are very trilling. The smelters are themselves now selling under their official rates, and from second hands purchases can be made at fully 52, under fixed prices. It was expected that a decline in official rates would have been announced by the smelters at their last meeting, but they did not do so, though it seems rather surprising that they should maintain present quotations in the series of t

tions in the face of so flat a market. Business in foreign also has been done at reduced rates.

IRON.—In Staffordshire the demand is rather quieter, but some of the works are engaged in the East Indian Railway Company's con-tract for best Staffordshire iron, which helps to keep them fairly em-ployed. There seems no chance of any decided improvement before tract for best Staffordshire iron, which helps to keep mean and ployed. There seems no chance of any decided improvement before the close of the year. Some manufactures of pig-iron appear somewhat more disposed to yield in price in order to effect sales. In Welsh the trade of the district has not been, to any material effect, favourably influenced by the easiness of the money market and the lowness of the Bank rate of discount, and buyers on home account continue to purchase sparingly. No change for the better is expected to take place before January quarter, by which time, it is hoped, greater confidence will pervade all branches of industry. The various mills and furnaces, however, are still kept fairly employed, and the workmen are earning tolerably good wages, considering the depressed state of trade generally. The exports are of an average character, and there is every prospect of its being more animated ere long. Business with the United States is much better than it was a few weeks since, and a greater amount of regularity characterises a few weeks since, and a greater amount of regularity characterises. the placing of American orders; specifications for spring delivery are coming in, and these will assist very much in keeping the works in fair operation during the winter months. There is a more active enquiry for the Continent, and with the majority of the other foreign markets business is of an average character. The demand for pigiron is quiet. In Swedish iron business continues dull. In Scotch pig-iron a decline in price of 3d. per ton has occurred during the week, the present quotation being 53s. 3d. cash.

LEAD.—The amount of business transacted during the week has been only moderate, and prices remain without alteration.

been only moderate, and prices remain without alteration.

TIN.—The market remains without activity, and transactions to only a limited extent have occurred in foreign. A small parcel of fine round bottom Straits has been sold at 79l. cash, and there are buyers of fine square at 80%. About 1000 slabs of Banca have been sold at 81%, 10s. English continues very dull.

SPELTER.—A greater amount of activity has been manifested in

this metal, and prices have advanced; about 250 tons have been sold at 21l. 7s. 6d. to 21l. 10s., cash in 14 days; and at 21l. 15s. for January. Special brands at outports are held for 21l. 10s. January. Special brands at outports are held for 216, 100.

TIN-PLATES.—A fair amount of orders are offering for immediate

STEEL and QUICKSILVER remain without alteration.

BIRMINGHAM, Nov. 23.—Rylands' "Iron Trade Circular" says Iron is slightly better; a moderate business has been done in pigs; merchant iron, of smaller sorts, shows more life.

There has been rather more activity in the MINING SHARE MARKET since our last; but transactions are still confined to a limited number of mines, and to those mostly of a speculative character. Wheal Chiverton, North Crofty, East Grenville, Prince of Wales, South Condurrow, Wheal Agar, East Carn Brea, Carn Camborne, East Basset, West Caradon, West Frances, Chiverton Moor, and Grenville, set, West Caradon, West being the most dealt in. West Chiverton, 57 to 59; at the quarterly meeting, held on the 17th, the accounts showed a credit balance of 15,759%. 4s. 10d., and a dividend of 2l. per share (6000L) was declared, 10,709. 48. 10d., and a dividend of 22. per snare (60002.) was declared, leaving 97592. 48. 10d. in hand. The credit side gives in one line, "Lead ore sold during the quarter 14,0472. 16s. 10d.;" so that the shareholders who were not present at the meeting are neither made acquainted with the dates of sales, prices, nor quantities sold. A few months ago some of the shareholders complained of the very large balances kept in hand; and since that time the present mode of keeping accounts has been adopted, leaving out, as we apprehend, the leavest leaves the date which in reality, would show a larger credit. the last sales of lead—which, in reality, would show a larger credit balance than 9759/. 4s. 10d. The mine report is very satisfactory; the points in operation at the mine are valued in the aggregate at 6271. The 100, east of Hawke's, has been driven 12 fms. through a lode worth from 201. to 601. per fm.; the lode in the present end is producing stones of lead. The 100, west of Hawke's, has been driven 16 fms.; and in cutting through the lode 3 feet it is worth 701. per WILLIAMS'S PERRAN FOUNDRY COMPANY,
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ENGINES, together with BOILES, PUMP CASTINGS, and MINING TOOLS
of every description, of the very best quality. Estimates given for the supply of
any amount of machinery.

The sales of lead, the quantities and prices of which are given in
London Agent.—Mr. EDWARD COOKE, 2, Crown Chambers, Threadneodle-street.

this mine, amounted to 986%, 2s. 4d. The best parcels brought

191. 7s. 6d. and 191. 11s. 6d. per ton. A call of 5s. per share was made. Cookney's shaft is down 12\frac{1}{2} fms. below the 80 fm. level; the lode at present is worth 181. per fm. The 100, west of Murray's, is worth 35l. per fm.; the rise, 30l. per fm.; a wize sinking below the 86 is worth 30l. per fm. It will be seen that this mine is getting into a fine position, both financially and underground.

Chiverton Moor, 4\frac{1}{2} to 5; at the meeting a call of 7s. 6d. per share was made. The accounts, after crediting lead ore sold 691l. 3s. 1d., showed a debit balance of 115l. 3s. 8d. The report states that during the three months some good lead ground has been opened in the 50, and from the present appearances the agents hope to have a very productive lode in the 50, west of flat-rod shaft. Carn Camborne, 22s. 6d. to 25s.; Clifford Amalgamated, 6 to 6\frac{1}{2}; Cook's Kitchen, 6\frac{1}{4} to 2\frac{1}{2}; East Lovell, 9 to 10; East Russell, 2\frac{1}{2} to 3\frac{1}{3}. East Grenville shares have advanced to 2\frac{1}{3}, 2\frac{1}{4}; ta the meeting, on Tuesday, the accounts presented showed a balance of liabilities over assets of 815l. 7s. 10d., and a call of 2s. 6d. per share (750l.) was made. The report states the lode in the 95 west had improved, worth more than 2 tons of rich ore per fathom, and promising for further improvement. The winze below the 85 is worth 4 tons per fathom. Great Laxey, 17\frac{1}{2} to 18\frac{1}{2}; Great South Tolgus, 10s. to 12s. 6d.; Great Wheal Vor, 16\frac{1}{2} to 17\frac{1}{2}; Marke Valley, 3\frac{3}{4} to 4. At Prosper United the mine has improved, and, notwithstanding the low price of tin and copper, the returns leave a small profit, while the reserves have increased considerably since last meeting. North Treskerby, 2\frac{1}{4} to 17 to 10 t Wheal Vor, 164 to 174; Marke Valley, 32 to 4. At Prosper United the mine has improved, and, notwithstanding the low price of tin and copper, the returns leave a small profit, while the reserves have increased considerably since last meeting. North Treskerby, 22 to 34. Prince of Wales, 24s. 6d. to 26s. 6d.; the cross-course lately intersected in the 45 east is said to contain rich malleable copper ore per fathom. Providence Mines, 21 to 23; South Condurrow, 10s. to 12s. 6d.; South Frances, 19 to 21; Tincroft, 94 to 10; West Caradon, 13 to 14. West Frances shares have been in good demand, and advanced to 64 to 74. West Seton, 120 to 125; Wheal Basset, 65 to 70; Wheal Buller, 19 to 20; Wheal Grenville, 20s. to 22s.; Wheal Seton, 145 to 150; Wheal Uny, 2s. 6d. to 7s. 6d. Devon Great Consols, 425 to 435; a dividend of 6l. per share (6144L) has been declared, leaving 19,306l. 12s. 1d. in hand. The report of the mine states that the south lode in the 130 east, at Field's shaft, has been intersected to the east of the cross-course 4 feet wide, and worth for ore 2 tons per fathom. In the 90 west the lode is worth 3 tons, or 15l. per fathom. Caddy's rise, in back of the 90 east, is worth 10 tons, or 80l. per fm. At Wheal Emma the 175 east is worth 7 tons, or 35l. per fathom.

At Wheal Emma the 175 east is worth 7 tons, or 35L per fathom.

On the Stock Exchange the Mining Market has been inactive during the week, and prices rule about the same. St. John del Rey have been in demand at 51 to 52; Cobre enquired for at 2 to 2½; Chontales, 1 to 4 dis.; Don Pedro, 4 dis. to par; Anglo-Brazilian, 4 dis. to par; Port Phillip, 1 to 1½; English and Australian Copper, ½ to 1; Cape Copper, 1½ to 2½; United Mexican, 1½ to 2; Panulcillo, Copper, 4 dis. to 4 prem.; Capula, 1 to 1½; Serke Peninsula, 4 to 4; Yudanamutana, after having risen to 1½, 2, close 1½, 1½; Pestarena Gold, 4 dis. to par; Central American, 4 to 3. Great Wheal Vor, 17 to 174; Chiverton, 7½ to 8½; Chiverton Moor, 4½ to 4½; Clifford, 6 to 6½; Drake Walls, 4 to 4; Devon Great Consols, 425 to 435; East Russell, 3 to 3½; East Lovell, 9½ to 10; East Grenville, 2½ to 2½; Grenville, 1 to 1½; Herodsfoot, 30 to 32; Margaret, 3½ to 4; North Roskear, 30 to 4 (call paid); North Crofty, 1½ to 2; Providence, 22 to 2½; Seton, 150 to 160; Tincroft, 9½ to 10; West Seton, 130 to 135. West Chiverton, 60 to 62 (cum div.); the mine is most favourably reported on. Westminster (Limited), 5 to 5½; prospects reported very good. The changes otherwise are unimportant. changes otherwise are unimportant.

IRISH MINE SHARE MARKET .- The introduction of the Russian Anglo-Dutch loan of 6,000,000. having been the means of bringing down the quotations of the English Funds, the tone of the share market, which had just commenced to show some tendency to improvement, became, also, somewhat depressed, and mining shares did not escape the general disinclination to purchase unless at reduced rates—to which holders are, however, not inclined to submit, in conrates—to which holders are, however, not inclined to submit, in consequence of which there is just now very little doing in these securities. At the close of last week there were but few shares offered of the Mining Company of Ireland, but on Tuesday last, simultaneously with the announcement of the new Russian loan, they were ineffectually offered for sale for January account; but for that account 181. 5s. was granted. They have since further receded, and close weakly at 181. (71. paid). Wicklow Coppers have, notwithstaning the above-mentioned unfavourable influences, been throughout exceedingly strong, and have gradually risen from 221. 17s. 6d., our last quotation, to 231. 10s. for cash, and 231. 13s. 6d. for the January account; while, for the middle of December, 231. 7s. 6d. was paid; they are now in less request, but no dealings have been effected. account; while, for the middle of December, 252, 18, 6d, was paid; they are now in less request, but no dealings have been effected. Carysforts showed great animation at the close of last week, and on Monday last they were at 5s, being an advance of 2s, per share since that they have, however, been ineffectually offered for sale at the advanced price. General Mining Company for Ireland share, which stood at 3l. 5s., were generally neglected, except that 3l. per share has been offered for them without success. Connorrees have also been beauty called the story a triffing amount of business having heard peen done also been heavy, only a trifling amount of business having been due at 13s. 6d., with symptoms of a declining market. Of Killaloe Sato Quarry shares no mention has been made, either for buying or selling, at rates likely to be paid or accepted.

At Truro Ticketing, on Thursday, 3884 tons of ore were sold, ralising 15,134*l*. 6s. The particulars of sale were:—Average staidard, 104*l*. 19s.; average produce, 6#; average price per ton, 3*l*. 17s. 6d.; quantity of fine copper, 246 tons 11 cwts. The following are tie particulars of the sales during the past month:—

Date. Tons. Standard. Produce. Per ton. Per unit. Or copper. Oct. 18s. 4013 ...\$107 0 0 ...\$45 ...\$42 0 ...\$12s. 94/d ...\$64 0 0, 25 ...\$1917 ...\$98 11 0 ...\$74 ...\$4 18 0 ...\$12 7/4 ...\$63 2 0 ...\$25 ...\$1917 ...\$98 11 0 ...\$74 ...\$4 18 0 ...\$12 7/4 ...\$63 2 0 ...\$25 ...\$107 ...\$10 19 0 ...\$6/4 ...\$4 6 0 ...\$12 0 ...\$6 5 0 ...\$25 ...\$384 ...\$104 19 0 ...\$6/4 ...\$3 12 0 ...\$11 7/4 ...\$13 10 ...\$10 10 19 0 ...\$6/4 ...\$12 0 ...\$13 17 0 ...\$14 0 ...\$15 10 10 0 ...\$15 0 .. been in the standard 21., and in the price per ton of ore about 2s. 6d.

At the Swansea Ticketing, on Tuesday, 2717 tons of ore were sold,

4l., and in the price per ton of ore about 12s.

The directors of the Devonshire Great Consolidated Copper Mining Company, at their board meeting, held yesterday, declared a dividend of 6i44... being 64. per share, arising from profits on sales of copper ores sampled in the months of July and August last. After payment of the same, there remains in hand a balance of 19.366. 12s. 1d. in cash, ore bills not at maturity, and reserved fund, applicable to the general purposes of the company.

At West Chiverton Mine meeting, on Nov. 17 (Mr. E. Burgess in the chair), the accounts showed a credit balance of 15,7591. 4s. 10d. A dividend of 60001. (2l. per share) was declared, leaving 97591. 4s. 10d. to be carried forward to the credit of the next account. Details in another column.

At Botallack Mine meeting, on Wednesday, the accounts for the three months ending september showed a credit balance of 578, 68, 3d. During the quarter a large amount of money has been expended on the new Carapyorth part of the sett. With an advance in the price of tin the mine is likely to be-

the quarter a large amount of incompared to the price of tin the mine is likely to become highly remunerative.

At When Kitty (St. Agnes) meeting, on Nov. 16 (Mr. T. Reace in the chair), the accounts showed a credit balance of 4611. 14s. 7d. The profit upon the three months' working was 2321. 5s. 5d.

At the West Basset Mine meeting the accounts showed—Balance carried over from last meeting, 4891. 7s. 3d.; copper ore sold, 15901. 6s. 4d.; the ores sold, 7411. 19s. 1d.; advance on tribute, 2001. =30211. 12s. 8d. Costs for Aug. and September, 21641. 7s. 3d.; royalty, 1441. 4s. 10d.; boundary cost on account, 1001.; advance on tribute, 2201.; sunnires, 181. 14s. 5d.—Balance, 3731. 16s. 2d., 20211. 12s. 8d. The balance, 3731. 16s. 2d., and the proceeds of sales of ore not yet at maturity, amounting to 11601. 13s. 11d.—15241. 10s. 1d., applicable for the general purposes of the adventure, were carried over to next account. Captain W. Roberts, in concluding an elaborate report, says—"Such are the details of the present operations, amongst which are the following interesting points to look forward to:—The cutting of the lode in the 154, at Grenville's shaft, the intersection of the middle lode in the 104 cross-cut, south of ditto, and the lode to be cut in the 78, south of Thomas's shaft; these lodes will most likely be reached before the next meeting. It is early to calculate how much the next

coper ore sampling (five weeks hence) will be but I think over 250 tons, and as ear iin department has improved, and is apparently still improving, there is a grobability of raising and selling some 800l. if not 1000l. worth of thin in the next we months, whilst the costs, I hope and believe, will not exceed the returns." At Wheal Owles meeting, on Nov. 16, the accounts for the quarter sides of september showed a debit-balance of 1875l. Is. 1d. Work performed suring the quarter: 131 fms. 1 ft. driven in lewels and 25 fms. 3 ft. 6 in. sunk in state and winzes; 29 pares stoping on tut for tin, and 30 pitches on tribute. The state and winzes; 20 pares stoping on tut for tin, and 30 pitches on tribute. At the caldback of 1918l. 19s. 10d., and a loss on the two months' working of sebit balance of 1918l. 19s. 10d., and a loss on the two months' working of adbit balance of 1918l. 19s. 10d., and a loss on the two months' working of adbit balance of 1918l. 19s. 10d., and a loss on the two months' working of and Boundy reported on the various points of operation. They employ 70 men and boys on tribute, and 142 on tutwork, out of which number 98 are sinking and and boys on tribute, and 142 on tutwork, out of which number 98 are sinking and and boys on tribute, and 142 on tutwork, out of which number 98 are sinking and and boys on tribute, and and to on the part of their secretary, Mr. Powning, and stated that the were without assets, except 2d. or 3d. at the bank, and an ore bill for his they were without assets, except 2d. or 3d. at the bank, and an ore bill for arcears of call. It was elicited that 20,000d. was paid for the mine, and that 30 shares were given for promoting the company. It was resolved "That hat 30 shares were given for promoting the company. It was resolved "That hat a somitive of investigation be formed to enquire into the position of the company." It was agreed to transfer the registered office of the company to Wigton more shortly, which would enable them to go on for at least a month; and it was res

At the Port Phillip and Colonial Gold Mining Company (extra-ordinary general) meeting, on Tuesday (Mr. J. D. Powles in the chair), Messrs. J. B. Macdonnell and E. W. Wingrove were elected directors in the room of Sir C. H. J. Rich, Bart., and Capt. J. Vetch, R.E., resigned. Details elsewhere.

On the Stock Exchange a large amount of business has been trans-On the Stock Exchange a large amount of business has been transacted in Mining Shares during the week. The following quotations have been officially recorded in British Mining Shares:—East Basset, 22; West Chiverton, 60; Great Wheal Vor, 17; Great Laxey, 18; Clifford, 64; East Caradon, 5, 54, 54, 54, -In Colonial Mining Shares the prices were:—Port Phillip, 1, 14; Scottish Australian, 4, 4; Yudanamutane, 18, 14, 14, 14, 14, 14, 14, 14, 14, 14, 12, 12, 12, 18, 18; St. John del Rey, 51, 514, 514, 51, 514; 514; United Mexican, 14; Capula, 14; Cobre, 14; Anglo-Brazilian, 4 dis.; Don Pedro North del Rey, 4 dis.; Fortuna, 24, 23, 24.

del Rey, & dis.; Fortuna, 24, 25, 24.

The Bank of the England return, for the week ending on Wednesday evening, seems to indicate but little revival of confidence. In the ISSUE DEPARTMENT there is shown an increase in the "notes issued" of 659,470., reparament, there is shown an increase in the "rest" of 80681.; an increase in the "public deposits" of 685,0711.; and an increase in the "other deposits" of 78,2721.—1,441,3611., and a decrease in the "seven day and other bills" of 18,2721.—1,441,3611., and a decrease in the "seven day and other bills" of 18,2721. and in increase in the "Govern nent securities" of 236,3471. and an increase in the "Govern nent securities of 368,3471. and an increase in the "other securities" of 129,482.—489,8951., showing an increase in the total reserve of notes and coin of 940,8371.

COAL MARKET .- The fresh arrivals this week reached 123 ships COAL MARKET.—The fresh arrivals this week reached 123 ships. The cold, stormy weather created a large demand for house coals, and prices quote an advance in the week of fully 1s. per ton, and a clearance effected. Hartley's have been in fair request, but with little variation in prices. Hetton Wallsend, 23s.; Braddyll's Hetton Wallsend, 21s. 6d.; Hetton Lyons Wallsend, 20s. 3d.; West Hartley, 18s.: unsold, 1; at sea, 55 ships.

CONTRACT FOR COAL.—The Admiralty require the supply of 2500 tons of Coal (one-third North of England, and two-thirds South Wales), to be delivered into store at Ascension.

THE COPPER TRADE .- Messrs. Vivian and Younger (Nov. 23) write THE COPPER TRADE.—Messrs, Vivian and Younger (Nov. 23) write — Again we have to report lower prices, and the market generally resents an unfavourable aspect. Accounts from consuming counries, especially from India and Egypt, do not advise the improvement in the emand which most people have been looking forward to for so long, and, not-nithstanding the falling off in shipments to these places, the stocks do not marially decrease. As we are drawing so near the end of the year, consumers adothers are reducing their purchases as much as possible, and holders who more sales have to accept ruinous prices. Some considerable quantity of ore adregatus has been bought at 14s. 3d., but there are no longer buyers of any gree parcels at this figure. For fine foreign and English raw copper, out of conds, it is difficult to fix a price, as the ordinary buyers show no disposition make any reasonable offers. The fall during the week may be considered as bout 2t. to 3t. a ton all round.

to make any reasonable offers. The fall during the week may be considered as boost 3t, to \$t\$, a ton all round.

The Iron Trade.—Messrs, Shaw and Thomson (Nov. 21) write—a considerable amount of quietude prevades the Iron Trade, but during the past ornight a fair business has been done. In rails about 15,000 tons have been constructed for by home railways, and enquiries, which will, no doubt, lead to construct for a long the result of the past of the reasonable of the reasona

CARBERRY MINING COMPANY (LIMITED).—The Liquidators of the Carberry Mining Company (Limited) are PREPARED to ENTER into NEGOTIATIONS for the DISPOSAL of the company's mines, consisting of the Gurtavallig Copper Mine sett, situate on the shores of Bantry Bay, county of Cork. These mines are the nearest in point of position to the celebrated Berehaven Mines, and offer the strongest inducements for the judicious investment of capital.

estment of capital. articulars may be obtained by addressing the Liquidators of the Car-ning Company (Limited), 29, Westmoreland-street, Dublin.

A NG LO-MEXICAN MINT OFFICE.—The Directors of the Anglo-Mexican Mint Company beg leave to notify to the shareholders a DIVIDEND will be PAYABLE at the office, as under, on and after day, the 3d of December next. Claims to be made (printed forms of which be obtained at the office) two clear days previous to payment. Attendance, in to Three o'clock. 4. Finsbury-place South, London, November 22, 1866.

THE ALTEN AND QUÆNANGEN MINING COMPANY

(IJMITED).—Notice is hereby given, that the ANNUAL GENERAL MEETING of the shareholders will be HELD at the offices of the company, No. 2. New Broad-street, on THURSDAY, the 29th November inst., at Two clock precisely. for the purpose of receiving a report from the directors, and statement of accounts to the 31st March last.

By order of the Board,
London, November 17, 1866.

EDWARD J. COLE, Secretary.

THE CONSOLIDATED COPPER MINES OF COBRE. The Court of Directors of the Company of Proprietors of the Royal Copper Mines of Cobre, in pursuance of the resolutions passed at a Special General Meeting of the company, held on the 3ist day of July, 1865, and confirmed at a Special of the company, held on the 3ist August, 1865, hereby REQUIRE the Hollder of the company, held on the 3ist August, 1865, hereby REQUIRE the Hollder of the company to Deliver the SAME, with their NAMES, RESIDENCES, and DESCRIPTIONS written thereon, at the office of the company, Gresham House, Old Broad-street, in the City of London, on or before the 3d day of December next, to the Intent that the name, residence, and description of every person then holding any of those certificates, and the number of shares comprised therein, may be duly entered in a book to be kept for that purpose, and to be called the "the Share Register Book;" and to the Intentand so that every person so registered, his executors, administrators, and assigns, while holding any share or shares in the company, shall be bound to perform and observe in respect thereof all and singular the clauses, stipulations, and agreements contained in the company's Deed of Settlement and from time to time in force; and to the laws, rules, and regulations of the company from time to time in force; and to the laws, rules, and regulations of the company from time to time in force; and to the laws, rules, and regulations of the company from time to time in force; and to the intent that such existing certificates shall and may then be force; and to the intent that such existing certificates shall and may then be reacciled; and the Court of Directors will thereupon deliver to every person so registered one or more certificate or certificates of his share or shares, specifying the number or numbers thereof, and the name, residence, and description of the Proprietor.

And the Court of Directors further give notice that, if the holders of any of the

Dated the 31st day of October, 1866.

R O B E R T L I B B Y A N D SHAREDEALERS, CAMBORNE, CORNWALL. 8 0 N,

LEAD AND IRON.—A GENTLEMAN in AYRSHIRE, SCOTLAND, has SECURED a LEASE for 21 years of all MINERALS (except Gold and Silver) on a LARGE EXTENT of LAND in that county. From searches that have already been made, Lead has been discovered in at least five different places, and at several miles distance from each other. It appears to be abundant. Iron of the hematite class has also been found, and from all appearances is in large quantities. A sample of the Lead and Iron will be seen at the office of the MINING JOURNAL.

the Mining Journal.

As it will be inconvenient for the lessee to work these minerals, he is desirous
to SUBLET or SELL HIS RIGHT TO THE LEASE, as may be agreed upon.

Any further information will be given by ALEXANDER BLANE, Esq., Alton
Albany, Barr-by-Girvan, Ayrshire, Scotland, who will cause parties to be shown
the places where the minerals are.

A GENTLEMAN having an extensive connection with merchants, manufacturers, and others, would be GLAD to UNDERTAKE the SALE of PATENTED ARTICLES or INVENTIONS, upon commission.—Apply to Mr. W. T. RAWLE, patent and mining agent, 8, Small-street, Bristol.

A GENTLEMAN, calling regularly on the large Paint Manufac-turers in the North, would UNDERTAKE the SALE of MINERALS suitable for PAINT and COLOUR MAKING.—Address, "Barytes," MINING JOURNAL office, 26, Fleet-street, London.

MEXICO.—A MINING ENGINEER and METALLURGIST YA resident in the city of MEXICO, is READY to ACCEPT COMMISSIONS or the INSPECTION of MINING PROPERTIES, and REPORTING THEREON For particulars, address YJ. P. S., "MINING JOURNAL office, 26, Fleet-street ondon, E.C.

THE TRUSTEES of a deceased Gentleman WISH to DISPOSE of his INTEREST in a valuable COAL PROPERTY near MOLD, adjoining Collieries at which the Coal and Cannel seams have been proved and worked,—For particulars, apply to Mr. T. L. COTTINGHAM, Mining Engineer, Mold, Flintshire.

TO CAPITALISTS.—A FIRST-RATE OPPORTUNITY presents itself to a person having SIX HUNDRED or EIGHT HUNDRED POUNDS to LEND for a YEAR or two. The security is unexceptional, and the interest nigh.—Apply, by letter, to Mr. G. C. G. Allen, Solicitor, 64, Chancery-lane.

WANTED, TENDERS for the ERECTION of a FURNACE CAPABLE of PRODUCING ONE HUNDRED TONS PER WEEK of BEST PIG-IRON from hematite ore. The furnace must be erected on the most improved principles with regard to economy and profitable working.—Address, "N.." Charles Barker and Sons, 8, Birchin-lane, London, E.C.

WANTED,—A ONE OF TWO-HORSE POWER SECOND-HAND PORTABLE STEAM-ENGINE, in good condition.—Apply, stating lowest price, to Capt. TREGAY, Redruth, Cornwall.

LANFAIR GREEN AND BLUE SLATE QUARRY.—

Manager, T. HARVEY, Esq.—TO BE SOLD, FIFTY SHARES at a very
considerable discount.—Address, "N. K. H.," MINING JOURNAL office, 26, Fleetstreet, London, E.C.

MPORTANT TO IRONMASTERS.—FOR SALE, a first-class MPORTANT TO IRONMASTERS.—FOR SALE, a Inst-class IRON MINE, where any quantity of ore may be raised (without the use of water or steam machinery), and which is now open. The above being near a good shipping port, a good profit can be made monthly. The present owners will sell the ore to any ironmasters, or the mine. The above offers an excellent investment to capitalists and others, there being no further outlay required, but to commence work, and any quantity of ore may be raised at once.

Any further information can be obtained by applying to "C.B.," Post Office,

IMPORTANT TO CAPITALISTS.

IMPORTANT TO CAPITALISTS.

TOR SALE, either entire or in parts, the BWLCH GWYN SLATE QUARRY.—This quarry is situated in the parish of LLANGELYNIN, in in the county of MERIONETH, being within about a mile and a balf to Barmouth Harbour, and about 500 yards to the Barmouth Junction on the Cambrian Rallway. The proprietors have a right to construct a tramway to the latter place. The quarry has been sufficiently worked, so as to prove beyond all doubts that there is an inexhaustible supply of slate. Upwards of 15,000 slates have already been manufactured out of a very limited space. There is an ample room for tipping rubbish, and the natural position of the hill (on which the quarry stands) is most advantageous for developing the quarry upon an extensive scale. Reports from good authorities upon slate quarries may be had upon application.

spelication. For furth**e**r particulars, apply to Mr. William Jones, Havod, Llanberls, vio

FOR SALE,—A SECOND-HAND PORTABLE OR TRACTION STEAM ENGINE, of 7-horse power; has reversing gear; with or without pit winding drum.—Apply to Barrows and Carmichael, Portable Engine Works, Banbury, Oxon.

TO BE SOLD, at a low price, TWO NEW BOILERS, made of Best Best Shropshire Plates, 24 feet long, 6 feet diameter, with two tubes, 1 foot 19 inches diameter.—Apply to Townshend, Wood, and Co., Swansca.

Breconshire, Mid-Wales.—Slate Quarries to Let, near Newbridge-On-Wye.—Apply to Mr. Pratt, Crickhowell.

TRUCKS TO LET.—FORTY 7-ton NARROW GAUGE TRUCKS TO BE LET. with immediate possession. For further parti-culars, apply to HENRY BAKER, Esq., Secretary to the Western Wagon Company (Limited).—Bridgewater, Nov. 13, 1866.

| MR. WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S, BISHOPSGATE STREET, LONDON, E.C. (Established 12 years), has FOR SALE the FOLLOWING SHARES, at nett prices:—20 Chiverton Moor, &4%. 5 Carn Brea, £14. 25 North Treskerby, £3. 40 Sc. Condurrow, 10s. 9d. 10 Clifford, £64%. 40 East Grenville, £2 6 9 1 Forest Great Vor, £17½. 25 Gt. So. Tolgus, 11s. 9d 100 Frontino, 2s. 3d. 15 E. Carn Brea, 43s. 3d. 40 East Grenville, £2 6 9 1 West Caradon, £14½. 80 Prince of Wales, £26s. 5 Suth Frances, £19½. 80 St. Ives, £53½. 40 Ho. Alger, £44. 5 Ding Dong, £64 5. 80 North Roskear, £34. 15 East Russell, £3. 16 East Russell, £3. 26 Cen. American, 12s 6. 40 Wh. Grenville, £24. 96 Onthales, ¾ dis. 6d. 27 Tresavean, £4½. 40 E. Providence, £25½. 40 North Downs, 7s. 40 E. Providence, £25½. 40 Cen. Lassell, £3. 40 Rosewarne Un., 7s. 6d 17 Incroft, £93½. 40 Cen. Snailbeach, 24s. 6d 17 Incroft, £93½. 41 The MRS of Wheal Uny, 8s. 9d. 75 West Kitzy, 5s. 6d. 17 Sparnon, 11s. 6d.

MR. THOMAS THOMPSON, MINING OFFICES, 12, OLD JEWRY CHAMBERS, LONDON, E.C.
Mr. THOMPTON recommends the immediate purchase of Westminster, New Tamar, and New Clifford shares.

TO MINING AGENTS AND DIRECTORS OF LEAD MINING COMPANIES. MESSES. WESTON AND COLLINGBORN, of No. 18, PETER MESTREET, BRISTOL, having fitted up an establishment at SWINFORD, near BITTON, BRISTOL, for the SMELTING and REFINING of SILVER-LEAD and the other qualities of LEAD ORES, are now prepared to PURCHASE by TENDER, or otherwise, LEAD ORES in any quantities that may be offered to them.—Swinford, near Bitton, Gloucestershire, Oct. 5, 1886.

JAMES D. GENN AND CO., STOCK AND SHAREDEALERS, 3, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C.

M ESSRS, CARNE AND CARTHEW are BUYERS of ELBE MESSES. CARKE AND CARTHEW are BULERS OF FIBE and LEVANT UNITED MINES SHARES; and are sellers, on account of executors, of 1-20th of the royalty of 10d. per ton on all coal raised and sold by the Teplitz Colliery, which, in the course of the next year, can scarcely fail to give an income of at least 500l. per annum. The coal is almost inexhaustible, being 50 feet thick, over an area of 2000 acres. The royalty is payable monthly in London. CARNE and CARTHEW, 12, North Buildings, Broad-street Terminus, London.

MESSES. R. C. CLIFTON AND CO., SHAREBROKERS, ALDINE CHAMBERS, PRINCESS STREET, MANCHESTER.

Mines inspected, and reports furnished. The best practical advice given to capitalists as to investments in mining,

Bankers: National Provincial Bank, Manchester. MESSES.

CAPT. RICH, BODMIN, CORNWALL, being in the centre of the mining districts of Devon and Cornwall, and having had 25 years' experience in the management and inspection of mines, OFFERS HIS SERVICES to INSPECT and REPORT on MINES in either of the above counties. Orders preparable strended to. promptly attended to.

CAPT. JOHN ROBERTS, who has just returned from Brazil, and who has spent eighteen years in gold mining in Brazil, New Granada, &c., now OFFERS himself to INSPECT any MINES in or out of Great Britain. Capt. ROBERTS would have no objection to a permanent situation.—Address, Hotel, Schull, co. Cork, Ireland.

THE FRONTINO AND BOLIVIA (SOUTH AMERICAN) GOLD MINING COMPANY (LIMITED).—Notice is hereby given, that Mr. W. G. POWNING has been DISMISSED from the OFFICE of SECRETARY of this company, and that the directors have APPOINTED MR. HERRY L. PHILLIPS to be the MANAGING DIRECTOR of the company pro tem., who will henceforth discharge all the duties heretofore performed by the late Secretary, and to whom in future all communications on the affairs of the company should be made.

PENHALE AND LOMAX (SILVER-LEAD) MINING COMPANY (LIMITED).—Notice is hereby given, that the OFFICES of the company are REMOVED to No. 32, NEW BROAD STREET, LONDON.

By order of the Board,
HENRY L. PHILLIPS, Managing Director.

A great pressure on our space has compelled the postponement of the continuation of the article on the "Extraction of Gold— Results of Experiments," &c.

L	EAD O	RE	5.	
Date. Mines.	Tons.	Amo	unt	Purchasers.
lov. 19-Isis of Man (stl. chats)	70	£16 1	4 (-
21-Frame Mills	50	16	1 6	 Treffry's Trustees.
- ditto	60	12 1	5 (Sheldon, Bush, & Co.
22—Glan Alun	30	12	5 6	 A. Evton.
-North Henblas	9	10 1	8 6	 Walker, Parker, & Co.
- Mount Pleasant	414	11 1	K 6	 ditto
-Summer Hill	11/4	11 1	2 6	 ditto
- uitto	2	5 1	0 (ditto
- ditto	11/4	1.5	2 (A. Evton.
-Dyingwm	11	11 1	8 6	 Walker, Parker, & Co.
-Mount Pleasant	11/2	15	0 (ditto

BLACK TIN Date. Mines. Nov. 21-Great Wh. Vor. Ts. c. q. lbs. Price p. ton. n. Amount. Purchasers. .. £3421 2 3-

BLENDE. Mines Tons. Price per ton. Purchasers. ... 100 4 0 6 Kenrick & Son. Nov. 22-Trelogan

COPPER ORES

Mines.				rice	3.	Mines. Tons. Produce. Price.
Berehaven.				17	6	
ditto				15	6	ditto 89 1416 9 12
ditto				4	0	ditto 88 1414 9 12
ditto				3	6	ditto 87 1414 9 12
ditto	. 94	 10%	. 7	4	0	ditto 108 1414 9 11
ditto				8	0	ditto 107 1418 9 9
ditto				19	0	ditto 3 6112 41 17
ditto	. 62	 10	. 6	18	0	Wallaroo124 101/2 7 2
Concordia .				17	6	ditto 122 1012 7 3
ditto					6	ditto 98 938 5 19
ditto	. 8	 2638	. 18	12	6	ditto 20 938 6 11
Pomona					6	Moonta Ore. 75 17% 12 8
Cape Ore	. 4	 3334	. 23	19	6	Cape Ore 56 27% 19 16
Concordia .	. 29	 1438	. 10	1	0	ditto 54 273g 19 11
Cape Ore	. 4	 32%	. 23	15	0	ditto 30 271/2 19 7
African	. 3	 2734	. 19	14	0	
Connorree .	. 84	 25/8	. 1	3	0	ditto 35 34 24 10
ditto					6	Hoz de Bar- 80 1414 10 2
ditto	. 3	 1834	. 12	10	0	
Newfound-	14	 135/8	. 8	14	6	Precipitate 18 7614 52 10
land	2	 111/2	. 7	15	0	Sludge 4 22 14 7
Var	. 97	 1934	. 13	17	0	Copper Ore 3 171/2 12 6
ditto	. 55	 1834	. 13	3	6	ditto 9 1016 7 4
Copper Reg.	. 75	 35	. 23	15	0	Copper Slag . 24 412 1 5
ditto	. 74	 35	. 23	16	6	Ballycummisk120 738 4 9

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Tons. Amount.

Tons. Amount.

Tons. Amount.

1834 £ 774 1 6

Freeman and Co. 914 766 14 3

Grenfell and Sons. 550 5240 3 0

Sims, Willyams, & Co. 1844 4056 15 0

Vivian and Sons. 599 5897 10 0

Williams, Foster, & Co. 432 4467 5 0

British and Foreign Copper Company 3 125 11 0

Mason and Elkington 188 5-6 2609 17 1

Bankart and Sons 166 1483 7 6

Charles Lambert 2004 121 187 187 187 187 187 187 187 6

Landore Copper Company 54 124 11 0

Penclawdd Copper Co. 111 867 7 6

Landore Copper Company 54 124 11 0

Total 717 £28.665 9 0 Total2717 £28,665 9 0

Copper ores for sale at Swansea, Dec. 4.—Californian Ore 105, 100, 97, 93, 85, 40 Newfoundland 82, 80, 75, 20—Californian 39—Wallaroo 110—Moonta Ore 52, 51 Cronebane Ore 48, Precipitate 14—l'otal, 1091 tons.

TOTALS AND AVERAGES.
21 cwts. Produce. Price. Standard.
Whole sale 2717 15% £10 11 0 £92 1 3

TOTALS AND AVERAGES OF LAST SALE.
21 cwts. Produce. Price. Standard.
Whole sale 1364 11½ £8 5 4 £97 2 0

COPPER ORES. Sampled Nov. 7, and sold at the Royal Hotel, Truro, Nov. 22.

	Mines	. T	ons.	Price.	. 1	Mines.	Tor	is.	Prl	ce.	
	Devon Gr	eat Consols .1	28 £	4 12	6	East Caradon	**** 8	8	£3	5	
	ditto	***********	24	4 7	6	ditto	75		8	6	(
	ditto		23	4 9	0	ditto	5		3	11	
	ditto	*********	117	3 11	0	ditto	50		3	19	
1	ditto		13	4 5	0	ditto	25		1	14	•
	ditto		110	3 19	6		2		6	18	(
	ditto	**********		4 8	0	Devon and Corny	vall 8			5	•
1	ditto	*********	05	3 2	0	ditto	7		4	11	
	ditto		96	4 6	6	aitto	6	3	4	17	•
	ditto	******	79	4 6	6		4		2	2	•
	ditto			2 18	6		4		3	16	6
.	ditto	*********	47	3 16	6	Wheal Friendshi			2	4	6
	ditto	*********		3 0	6	ditto	8	7	4	14	
	ditto	********		9 13	6	ditto	3	3	13	8	6
-	ditto	*********	36 1	0 9	6	Wheal Emma			2	4	•
- 1	ditto	**********		9 5	0		4		2	17	0
. !	ditto	********		5 10	6		4		6	16	0
	ditto	*********	14	3 15	0		10		11	13	0
,	ditto	********		5 5	0	Bedford United .			3	17	•
,		Down		8 1	6	ditto	50		4	14	-
V	ditto	*********		2 11	0	East Russell	5	3	4	4	(
	ditto	********		2 12	6	ditto	20		2	12	
	ditto	********		2 7	0		10		10	10	-
	ditto	********		2 13	6	ditto	1	5	2	19	0
1	ditto	**********		7 0	0	New Cornish			3	4	0
	Marke Va	alley		2 12	6	ditto	15	2	3	1	0
:	ditto	***********		2 8	6	Wheal Crelake .	5	0	2	17	(
5	ditto	*********		3 14	6		40		4	3	•
ī	ditto	********	53	4 9	6	W. Maria & Fort	escue 3	7	2	2	•
•	ditto	*********		4 1	9	ditto	35		1	6	(
	ditto	*********		1 4	6	New East Russel	1 3	5		14	
	ditto	*********	38	2 14	0	Fursdon	20		6	12	(
,				PAT.	PR	ODUCE.					
7		eat Con1415		00 12	6					4	
*		Down 510		76 10	6	East Russell	. 110 .		503	2	1
,		lley 449		13 14	6	New Cornish	. 105		334	4	1
		don 318		24 18	0	Crelake	. 90 .			10	1
0		Cornwall 303		73 12	6	W. Maria & For.			124	2	1
9		iendship 214			0	New East Russe			200	7	1
g	Wheal E	mma 148	65	99 2	6	Fursdon	. 20 .		132	0	1
1					_						

COMPANIES BY WHOM THE ORES WERE PURCHASED. COMPANIES BY WHOM THE ORES WERE PURCHASED.

Names.

Vivian and Sons.

Vivian and Sons.

Vivian and Sons.

Solvential Solvential and Solvential

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday next.—Mines and Parcels.—Wheal Rose 403—South Caradon 389—Clifford Amalgamated 278—North Treskerby 321—Fowey Consols 215—Phenix Mines 187—West Caradon 181—Glasgow Caradon 124—Craddock Moor 120—Great Wheal Busy 58—Gonamena 46.—Total, 2401 tons.

mena 46.—Total, 2401 tons.

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday week.—
and parcels.—Wheal Seton 823.—Clifford Amalgamated 545.—West Wheal
517.—South Wheal Crofty 387.—West Wheal Toigus 834.—East Pool 207.
Camborne 198.—Wheal Basset 194.—Dolcoath 108.—South Wheal Frances 89
Wheal Basset 40.—Ponnance 40.—Stray Park 11.—Pendarves United 11.—Ct.
—Total 2404 tons.

WATSON AND CUELL,

MINING AGENTS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

I, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MESSRS. WATSON AND CUELL having made a rangements for transferring their weekly Circular, which has had a large a circular property and remarks upon mines and mining, and the state of the share market, will in future appear in this column.

In the year 1843, when Cornish mining, and the state of the share market, will in future appear in this column.

In the year 1843, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. J. Y. Warson, F. G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (first series, 1882), "Cornish Notes" (second series, 1863), "The Progress of Mining," with statistics of the Mining interest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. Warson was the first to recommend the system of a "division small risks in several mines, ensuring success in the aggregate," and Messrs, Warson and Cuell have always a selected list on hand. Perhaps at no former period in the annuals of mining has there been more peculiar need of honest and experienced advice in regard to mines and share dealing than there is at present; and, from the lengthened experience of Messrs. Warson and Cuell they are emboldened to offer, thus publicly, their best services to all connected with mines or the market, as they have for so many years done privately, through the medium of their own Circular.

Messrs. WATSON and CUELL transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt and transmission of divit ends, obtaining information for clients, and affording advice, to the best of their knowledge and judgment, based on the experience of more than 30 years active connection with the Mining Market.

Messrs. WATSON and CUELL are also daily asked their opinion of particular mines, as well as to recom

Ways equal the expectations they may have held out in a property so fluctuating as mining.

Messrs. WATSON and CUELL having agents and correspondents in all the mining districts, and an extensive connection among the largest holders of mining property, have the more confidence in tendering their advice on all matters relating to the state and prospects of mines and mining companies, and are able to supply shares in all the best mines at close market prices, free of all charge for commission.

New East Russell—"J. F."—We deferred answering our correspondent last week because, as the mine is under the same management as the Prince of Wales, and the manager was to be in London, we thought it a good opportunity to obtain from him all the information asked for. We have often written upon the fine prospects of the mine, and explained that near the surface, and close to the East Wheal Russell, one of the finest gossan lodes ever seen was discovered, and the object of the New East Russell Mining Company has been to drive an addit into the hill to get under this gossan. More than two years have been occupied in this work, and the adit is not now very far from the point, and it will come under the gossan 90 fathoms deep, and if the lode is cut rich a profitable mine would be opened out at once, and at a trifling cost. There are other points of interest in the mine, which is making regular though small returns of copper, and sells 35 tons this week. The manager has often told us that he considers the mine one of the best speculations in the county, and it is now not far from accomplishment. We say, therefore, to all, as we said in regard to Prince of Wales, when shares were less than half their present price, buy. A short time ago the shares were at 25s., but owing to neglect and absence of business can now be had for less than half that price, and we shall be glad to pick them up for anyone disposed to follow our advice.

"One Bitten" we never took the thinded statements are bullshed in propectuses, and agents are found to sign them. Of the particular concern referred to by "One Bitten" we never took the trouble to read the reports, as some of the names connected with it were sufficient for us.

CHONTALES—"SHAREHOLDER."—This is the only gold mine we ever recommended, and we know of no reason for the present low price of shares, except they have been "banged." because rumours of defalcations on the part of an official of another gold mine have been affoat. The latter concern, however, is one that we always avo NEW EAST RUSSELL-"J. F."-We deferred answering our cor-

GUIDE FOR ADVERTISERS.—It is beyond question that the great art in advertising consists in carefully selecting those papers likely to be read by those to whom the advertisement is addressed, and in making the announcement itself sufficiently attactive to cause it to be carefully read. The contents of an advertisement must, of course, depend upon the ability to enlist attention of those perusing it, and the selection of the newapapers can in most cases be advantageously left to the agent employed to insert them; but as there are some who prefer to make the selection themselves, Mesers. VICKERS and HARRINGTON, the well-known advertisement contractors of Cowper's court, Cornhill, and Princes-street, Westminster, have issued a sheet, which cannot fall to be a most valuable guide, entitled "Synopsis of the Newspapers Published in the United Kingdom." The sheet has evidently been compiled with great care, and contains all the information that the most scrupious and judicious advertiser would be likely to require.

THE LAW OF BUILDING SOCIETIES.—So many persons are now

THE LAW OF BUILDING SOCIETIES.—So many persons are now directly or indirectly connected with benefit building societies, that it is difficult to conceive a more generally acceptable legal manual than "A Handy-book of the Law Relative to Benefit Building Societies." The second edition, considerably enlarged and improved, of the handbook of Mr. Charles Egan, barrister-at-law, has just been issued, and as the book contains the statutes appertaining to these societies, and the more important judicial decisions thereon, as well as practical comments defining the jurisdiction of the equity, the common law, the magistrates, and the county courts, with an index and table of the cases and statutes cited, it cannot fail to be favourally received.

Figure Trans Stripping Royal Evelyners. Under the title of "The

ELEMENTARY STUDIES FOR ENGINEERS.—Under the title of "The Theory of Strains in Girders and Similar Structures, with Observations on the Application of Theory to Practice, and Tables of the Strength and other Properties of Materials," Mr. Lixbox B. Stocker, B.A., the engineer to the Corporation for Preserving and Improving the Port of Dublin, has just issued (through Messes, Longmans) the first volume of a work which will be highly appreciated by engineering students generally. Mr. Stoney very justly observes that the references which have hitherto been made by writers on Mechanical Philosophy have been as brief and incomplete as to be of little practical use without further development, too frequently affording a pretext for the ill-concealed contempt which so-calied practical men sometimes entertain for theoretic knowledge. "A thorough acquaintance with the theory of strains," says Mr. Stoney, "and the strength and other properties of materials, forms the basis of all sound engineering practice, and when this is wanting even natural constructive talent of a high order is frequently at fault, and the result is either excess and consequent waste of material, or, what is still more disastrous, weakness in parts where strength is essential." The truthfulness of these remarks is certainly beyond question. The entire subject has been treated with the greatest care, and every detail and fact is given in the clearest possible manner, the book, as a whole, being one which is likely long to maintain a high position amongst the text-books recognised in the engineering profession. ELEMENTARY STUDIES FOR ENGINEERS .- Under the title of "The

CORNISH MINERS IN THE NORTH .- Several letters have been received at St. Ives from miners who have lately gone to Scotland from that neighbourhood. The men unanimously speak in grateful terms of their comfortable and comparatively well-paid situations, and urge their able-bodied friends to come North and share their improved condition.

THE ASSOCIATION FOR THE PREVENTION OF STEAM-BOILER EX-PLOSIONS.—At the last monthly meeting of the executive committee of the Asso-ciation, Mr. L. E. Fletcher, chief engineer, presented his report, of which the following is an abstract:—"During the last month 473 engines have been ex-amined and 631 boilers, as well as two of the latter tested by hydraulie pressure. Of the boiler examinations 536 have been external, 5 internal, and 129 entire. In the boilers examined 114 defects were discovered, 5 dangerous; internal corrosion, 12: external corrison, 16, two dangerous; internal grooving, 2; ex-ternal grooving, 1; feed apparatus out of order, 1; water gauges ditto, 17; blowcorrosion, 12; external corrison, 16, two dangerous; internal grooving, 2; external grooving, 1; feed apparatus out of order, 1; water gauges ditto. 17; blow-out apparatus ditto, 3; two dangerous; safety-valves ditto, 5; pressure guages ditto, 4; without feed back pressure valves, 32. The importance of strengthening the man-holes with mouth-pieces is shown by the fact that inte explosions by which fourteen persons have been killed and six others injured, have recently occurred to boilers in which this precaution has been omitted. In each of three explosions the primary renthas started from the man-hole, and although in some cases the pressure of the steam has been considerably higher than it should have been, so that the explosions have been partly attributable to excessive pressure, yet they have been materially promoted by the weakening effect of the unguarded man-holes, while others have been entirely due to that cause. In double-furnace boilers the mudoile—which is placed at the bottom of the front end plate, and below the furnace mouths—forms a second manhole, and should be guarded with a mouth-plece. When this is omitted inconvenience is experienced from loakage at the joint, which not only disfigures the boiler, but induces corrosion, in man cases so wasting that the front end plate, has to be cut away and repaired. With good mouthpleces, suitably got up, this danger is avoided. The explosions from Sept. 22, 1865, to Oct. 26, inclusive, numbers is avoided. The explosions removered killed and eleven injured. Not one of the explosions occurred to boilers under the inspection of this Association. I have visited the scene of the catastrophe of the two which were most disastrous—one with happened on Sept. 25, and resulted in the death of seven persons, as well as in injury to two others; and also one which occurred on Oct. 6, and by which eight persons were killed. Neither of these explosions arose from shortness of water or corroded plates. The former was an ordinary Cornish boiler, 4ft. 6in. In diameter, an

LONDON GENERAL OMNIBUS COMPANY, -The traffic receipts for

BAGILLT OIL COMPANY (LIMITED),
FLINT,
FAMS, WAGONS, &c., &5 PER TON.
TORCH AND LAMP OIL, 18. PER GALLON.
Casks free.

Notices to Connespondents.

* Much inconvenience having arisen in consequence of several of the Number during the past year being out of print, we recommend that the Journal should be filed on receipt: it then forms an accumulating useful work of reference.

THE TYDDYN SHEFFREYS SLATE QUARRY.—Can any reader inform me what is the position of this quarry? It was reported at first as capable of paying dividends in two years with the original capital, but this has all been expended, and more borrowed. It is now more than 18 months since Mr. John Francis inspected the quarry, and he gave it as his decided opinion that dividends would be paid in twelve months. Why have not these results been realised? If I am rightly informed, the management is not so effective or so economical as could be desired. Perhaps someone connected with the company will forward some particulars to the Journal, for general information.—A SHAREHOLDER.

A SHAREHOLDER.

CENTRAL AMERICAN ASSOCIATION, AND THE CHONTALES COMPANY.—I am not the only shareholder who thinks that some explanation is due from the directors of both these companies with reference to the acquisition of the Javali Mine. The directors of the Chontales state in their report that "the Javali Mine had been unexpectedly purchased over their heads, whilst Capt. Bedford Pim, the Chairman of the Central American Association, distinctly assured the shareholders at the recent meeting that "before purchasing the Javali Mine Dr. Seemann had satisfied himself that the Chontales Company were not competitors." At the bottom of which mine doth the truth lay?—A SHAREHOLDER IN BOTH COMPANIES.

CHINA-CLAY TRADE.—I will thank you to correct an error which appeared in last week's Journal, under the heading of "Ramble through the New China-Clay District." At Deri Clay Work it should be 3s. per ton carriage, and not 9s.; at Wheal Annie the price of clay should be about 30s., and not 20s., as stated.—CHINA-CLAY.

BRARE DEALING.—We never interfere in the sale or purchase of shares; neither do we recommend any particular mine for investment or speculation, or broker through whom business should be transacted. The addresses of most of the latter appear in our advertising columns.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, NOVEMBER 24, 1866.

The report from the "Government Statist" of South Australia had been laid before the Legislature just before the departure of the last mail, setting forth the progress made in the different departments of the colony. It is a very important and interesting document. It the colony. It is a very important and interesting document. It deals with every branch in an elaborate and business-like style; but the late hour at which it has reached us renders it impossible to give more than some general outlines until our next issue. We find, first, more than some general outlines until our next issue. We find, first, that the population numbers 156,605 souls, of which 80,686 are males and 75,919 females, and that the increase in the ceusus during 1865 was 9264 persons, which was much greater than had occurred for many years, being 64 per cent., as compared with 5 per cent. in 1864, and 34 per cent. in 1863. The excess of immigration over emigration was likewise greater in 1865 than during the previous ten years, the addition being 4766 persons, of whom 2649 were males and 2117 fermales, and of this total 4625 were immigrants at the public expense, so that only 141 were added to the community from beyond seas over and above the Government arrangements.

With reference to the revenue, we find there was a remarkable increase in 1865 in every source. The total for the 12 months amounted to 1,089,1284, as compared with 775,837f. in 1864, which was an excess of 313,2914, or 424, per cent. There had been a great demand for

of 313,291*l.*, or 42*l.* per cent. There had been a great demand for land, the report continues, and at high prices, so that the sales were brought up to no less a sum than 504,677*l.*, which was an augmentative to the figures of 1864 of 256,672*l.*, or nearly double the amount of the previous 12 months. The Customs revenue was also of larger extent than previous years, and, as this is the only tax, it is more interesting to make remark thereon. It produced 240,1834, about one-fifth more than in 1864, being at the rate of 30s. per head of the population, and which is lower than that imposed upon any other Australian community. The money derived from the occupancy of Crown lands had advanced to 73,8914, from 48,3814.—about 50 per cent, increase and this is attributed to the fact that the augmented cent, increase; and this is attributed to the fact that the augmented rents under the new pastoral leases had become due. Railway re-ceipts were of a corresponding character. They had advanced from 118,307% in 1864 to 134,070%, an excess of 15,763%, or nearly 12 per cent.: 402,550 passengers had been conveyed over the two lines, against 353,035 in 1864, and the total goods traffic was 261,183 tons, against 255,928 tons in 1864. Under every head, indeed, there was marked improvement, and each and all indicate considerable activity

and progress.

The national or bonded debt of South Australia is set down at The national or bonded debt of South Australia is set down at 751,600%, which is equal to 4% 10s, per head on the population; but the comparison with the other portions of Australasia are striking. For instance, New South Wales, with a population of 421,000 souls, has a debt of 5,638,530%, or 13% 8s, per head; Victoria, with a population of 632,998%, has a debt of 8,733,445%, or 13% 16s, per head; and Queensland, with a population of only 95,100, has a debt of 3,021,186%, or 3% 15s, per head. "These figures, therefore," says Mr. Duffield, the Treasurer, in his speech in the House, when introducing the financial question, "show that if ever there was a colony that ought to progress South Australia is the one. It is not taxed to anything like half the extent of Queensland, and the Government might borrow three-quarters of a million more money, and still owe a million-and-a-half less than that colony with its population of less than 100,000 people."

a million-and-a-half less than that colony with its population of less than 100,000 people."

The particulars as to the Banks are valuable in estimating the advance making in every branch of commerce in South Australia, and are the more particularly interesting at this moment, when so much attention is given to everything connected with monetary operations. The average liabilities of these establishments were, collectively, one million sterling in 1863, but in 1865 they were two millions sterling, while the assets were 2,000,000 in 1863, or double the liabilities; but while the assets were 2,000,000*l*. in 1863, or double the liabilities; but in 1865 they were 3,000,000*l*. against 2,000,000*l*. liabilities. During the year 1865 the assets increased from 2,361,300*l*. to 3,031,705*l*., or by the sum of 670,405*l*., whilst the liabilities advanced from 1,498,473*l*. in 1864 to 1,947,217*l*. in 1865, or by 448,744*l*. only. The deposits during the twelve months had increased largely, which is another most important feature. They reached 1,568,151*l*., which is an addition of 409,220*l*. in the year; and the discount had advanced to the aggregate of 2,424,924*l*., which is an excess over the previous twelve months of 700,165*l*. The yalue of notes in circulation was 340,512*l*. months of 700,165l. The value of notes in circulation was 340,512l. being an advance since 1863 of 108,031\(\llog\), while the amount of coin, bullion, and Government Securities held by the banks had increased in a somewhat less proportion—from 331,475\(\llog\). in 1863 to 450,596\(\llog\).

Notwithstanding the depression in trade, there was a steady increase in the number of depositors in Savings Banks. In this particular the returns are made up to the end of August of this year, when they numbered 7375, which was an increase since Jan. 1 of 299; but the money paid in during the eight months was only 91,5674, against 108,9704 withdrawn. Notwithstanding this, the total funds in these banks was 265,7824, or more by 604. 4s, than for the first nine months of last year, and gives an average of 314.5s, to the credit of each of of last year, and gives an average of 311.5s. to the credit of each of

With reference to the protracted drought, which has had such erious effects on the enterprise of the colony, the returns are up to the end of June of this year, all other statements, excepting as to Saving Banks, being to Dec. 31, 1865, when it appears there were 46,835 head of cattle less than in the previous year, whilst the decrease in sheep and lambs was not less than 326,922, or 9 per cent., in lieu of the average increase of 5 per cent, so that the colonists had become importers instead of exporters, and it would necessarily require some time before the country could recover its usual position in this respect. The depression in trade and commerce engendered by the drought and other causes had told materially on the exports, "and," says the treasurer, "had it not been for the mines matters wo have been still worse." Unfortunately, no statistics on this lat are given either in the speech or the report, which is an omi-

regretted.
The export and import trade combined amounted to more than s The export and import trade combined amounted to more than similitions sterling in 1865, which is double what it was ten years ago. The export of staple produce alone had increased to the extent of one million, or 45 per cent., and the total imports of 1865 were one fifth in excess of those of 1864. It is stated that during the twelve months the colony imported goods equal to 16.6 ds. per individual, the rate of 1864 having been 14.8 s., all but a fraction being the production of the mother country and her possessions. There was a slight decrease during the year in the amount of business done with victoria, but the transactions with New South Wales showed an increase of nearly 80 per cent. There is much useful information on agricultural and pastoral matters, and elaborate tables accompany the report.

THE FUTURE OF BRITISH AMERICA.

In last week's Journal we directed public attention to this subject. We offer no apology to the reader for again referring to a topic of so much moment as the mineral wealth of one of the richest sections so much moment as the mineral wealth of one of the richest sections of that great continent in the western hemisphere, which stretches from the Arctic to the Antartic circle. We believe that we are fully justified in representing the British possessions of North America as not inferior to any portion of the United States. Canada is destined to become, ere long, the grannry, not merely of British America, but of a large portion of the United States as well. And when communication is opened up, as we trust it shortly will be, with the Red River country and the great valley of the Saskatshewan, British America is not unlikely to become the granary of a large portion of the world. Into the vast domain that lies awaiting the presence of the husbandman there, as fast as facilities are afforded for settling the second of the contraction of the settling the second of the settling the second of the settling the second of America is not unlikely to become the granary of a large portion of the world. Into the vast domain that lies awaiting the presence of the husbandman there, as fast as facilities are afforded for settling it by the construction of the Intercolonial Railway from Halifax to Quebec, the widening and deepening of the Canadian canals, and the removal of obstructions from the passes and rivers, and lakes beyond, a tide of immigration is certain to set in that will yet make all that rich valley stretching away east from the foot of the Rocky Mountains towards the rising sun blossoom as the rose. The ceal mines of Nova Scotia and New Brunswick, the portion of this territory lying nearest Europe, are all but inexhaustible. Already, as previously intimated, the coal seams of Nova Scotia are being largely worked, and the products supply the United States' markets. Since our last publication, we have ascertained that, although not to so worked, and the products supply the United States' markets. Since our last publication, we have ascertained that, although not to so great an extent, yet capital in New Brunswick is being successfully invested in developing the resources of that fine province also. At Albert, in particular, most valuable oil coal and oil shale is produced, and the mineral is said to be among the richest and most productive in the world. It is exported in considerable quantities, and is in high demand. In other parts of New Brunswick coal is also obtained and coming into use.

and the mineral is said to be among the richest and most productive in the world. It is exported in considerable quantities, and is in high demand. In other parts of New Brunswick coal is also obtained and coming into use.

In Canada coal oil is becoming a larger item of export, rapidly rivalling the Pennsylvania oil wells in its production and economic properties. It is in reference to these fine provinces, and with a view of consolidating them into one compact whole, that there are at this moment in England representatives charged with the responsible duty of settling among themselves, and with the British Government, the terms of an Act of the Imperial Parliament having that object in view. To witness a young nation springing, as it were, out of the loins of another, all the kindly relations of parent and offspring preserved and in full operation, is a sight the world has, perhaps, never before been privileged to behold. The old thirteen colonies left us chafed, angry, and, after a violent struggle; the remnant of the group cling to the father land with filial affection, and, while assuming national proportions and quasi national burdens, is still refuse to listen to any propositions, no matter how plausibly put, which contemplate even proximate independence. Mr. Goldwin Smith, the able Oxford professor, drew down upon himself from all the colonies the strongest animadversions, because he foreshadowed an early future of that character as their manifest destiny. It may be, probably is, a greac experiment, but the people of England are revidently prepared to furnish the colonies all the legislation they can desire to carry out their grand confederation scheme. As Sir Strafford Northeote snnounced recently at Liverpool, they are prepared "to meet them half-way—ay, more than half-way," meaning, as we interpret it, that every reasonable aid shall be furnished consistent with the resources and dignity of the empire. The Fenians is an action to the recent raids, and their threats of further invasion. Manfully have

THE MINERAL RESOURCES OF THE RHINE.

If British capital is to be employed at all in connection with the development of foreign mines, those countries near at home are, beyond question, more entitled to consideration than those whose distance renders them less easy of access. Germany and France have each the advantage that, if it be thought desirable to have the mines in which one's capital is embarked inspected, the work can be performed in two or three days, and at a trifling cost, whilst if the mines be situated across the Atlantic the time required will be often as many months, and the attendant expenses greater in a corresponding degree. In France and Algeria the field for the profitable employment of capital is well worthy of attention; but in Germany there is the additional recommendation that in the mining districts that

is the additional recommendation that in the mining districts there already exists a population accustomed to mining work, that the laws are particularly favourable to the success of mines, and that the cost of labour and management is as low as could be desired. The Rhine Province and Westphalia are essentially the mining districts of Prussia, and the excellent results which have attended the development of the mines in those districts during the past few years have caused Rhenish and Westphalian mines to be regarded with much favour. It for some time seemed as though profits were only obtainable with German capital, but this was in consequence of the Anglo-German enterprises being solely in the hands of those who sought profits from the companies rather than the mines, and the results which German enterprises being solely in the hands of those who sought profits from the companies rather than the mines, and the results which have now been continuously obtained for some years by British managers has completely demonstrated that there is an abunddance of mineral property which is capable of yielding excellent profits, either to Englishmen or Germans, and that with a very moderate outlet provided there has english as a street could be resulted. and energy and integrity in the development and management of the mines. Taking the line of the Cologne and Geissen Railway as the boundary, there is an enormous and valuable mining district, extending for many miles, and containing within it all the elements required for creating one of the most resources levelities become outlay, provided there our many miles, and containing within it all the elements of quired for creating one of the most prosperous localities known. Near the boundary referred to are the rich and highly prosperous works of the Phenix Company, adjoining which is the great ironstone property, not yet worked; and on the Cologne side of this is another large ironstone property, formerly belonging to the same parties, upon which, however, comparatively little has been done.

For the establishment of ironworks on the English system, the Sieghway district has hitheste laboured under a disadvantage, owing

Siegburg district has hitherto laboured under a disadvantage, owing to the absence of coal—the lignite of the district, although excellent to the absence of coal—the lightle of the district, inthough extents for gas—making purposes, as well as for roasting the ore, and other minor purposes, being unsuited for use in the blast-furnace. The operations of the managers referred to, however, have caused the coal trade of the locality in question to assume an altogether different aspect. They turn out almost as much coal daily from each pit under a spect. aspect. They turn out almost as much coal daily from each pit under their management as was formerly produced in the entire neigh-bourhood; and, with the energy natural to Britons, they do not permit the markets within easy reach to remain unattended to for the want of furnishing a proper supply. Indeed, there is little doubt that, were it decided that even every mine upon the great "complex" adjoining the Phœnix should be worked, there are many collieries within reach which would readily undertake a seven years' contract within reach which would readily undertake a seven years'

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supply an adequate quantity of "steinkohle" for carrying them p supply an adequate quantity of "steinkonie" for carrying them at and as this property comprises no less than 81 mines, and ex spids over 20,000,000 square fathoms (about 50 square miles English) is obvious that the development of the "complex" would be of spids advantage, and would be a good field for investment if pro-

guital attractions, and there is a good field for investment if prorefly developed.
The position of the Siegburg mines is even at present admirable,
king bounded by the Sieg and Sulz (tributaries of the Rhine), traresed by four macadamised roads, and within half-a-dozen miles
of the Rhine itself; whilst there is a railway projected from Bonn
of the Rhine itself; whilst there is a railway projected from Bonn
of the Rhine itself; whilst there is a railway projected from Bonn
of the Siegburg, and then and district of Hagen and the neighsurhood with Siegburg, and thus, by securing an abundant supply
of coal on the property, at a price only a few pence per ton above
that ruling at the pit's mouth, enhance the value of the property to
nextraordinary degree, and afford facilities for extending business
operations to any desired extent. The nature of the minerals found,
and the proposed mode of dealing with them, will form the subject
of a future notice.

THE COAL AND MINERAL MINES OF BOHEMIA.

In the Mining Journal of Nov. 10 reference was made to the wealth of coals and minerals in Bohemia, and especially to the discricts of Falkenau, Komotau, and Eger, when it was stated that a company is now forming for the purpose of purchasing and working the Hochberger Estate and Company. The annexed is an extract from the Bank-und Handels-Zeitung, a well-known paper, edited at Berlin, and dated Nov. 10, which fully bears out the assertion in respect to the increasing popularity of Bohemian mines, and the great demand for Bohemian coal:—

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It, therefore, appears that Bohemia is destined to become one of the most important countries in Germany, and a pearl in the crown of the Austrian Empire. A well-managed company, directing its stenion to good mining property in that country has every probability of being successful in enriching its shareholders, as well as being instrumental in promoting the comfort and prosperity of the inhabitants of the neighbouring provinces. It may be naturally enquired by English capitalists—Why, then, do not the monied people of Germany undertake the development of such valuable property? The reply to this is simple—Because there is a decided lack of enterprise in the country, as well as a thorough ignorance of jointin the country, as well as a thorough ignorance of jointstock undertakings.

THE UTILISATION OF SODIUM IN GOLD AND SILVER AMALGAMATION.

Owing to the comparatively limited number of gold mines in this puntry, but little attention has hitherto been paid to the question of addium amalgamation, and the failure of the process at the one or solium amaigamation, and the failure of the process at the one or two mines has been accepted as conclusive that the use of sodium in the treatment of gold and silver ores is practicably inapplicable. In America, however, where the mines of the precious metals are more numerous, and where the disposition to give a fair, indeed more than an impartial, trial to everything novel is far greater than in this country, the case is different, and quite an animated contro-rersy as to the merits and demerits of the process has for some time set them going on. We have heap favoured by Perfaces. Haven rersy as to the merits and demerits of the process has for some time past been going on. We have been favoured by Professor HENRY WURTZ, of New York, the gentleman to whom the honour of having discovered the sodium process is now generally conceded, with an interesting communication on the utilisation of sodium in gold and silver amalgamation, which is given in extense in another column of this day's Journal, as well as an abstract of the paper read before the American Institute for the Advancement of Science, by Prof. WURTZ, and the letter of Mr. GUIDO KUSTEL, which called forth the remarks. The whole subject will thus be placed at one view fairly before the readers of the Mining Journal, and the knowledge of what has been done in the United States may enable those interested to apply the process more profitably in connection with the working of gold in Wales.

Alluding to the controversy, Prof. WURTZ writes that it happens

Alluding to the controversy, Prof. WURTZ writes that it happens Alluding to the controversy, Prof. WURTZ writes that it happens that "a gentleman whose name stands high as a metallurgist, Mr. RUSTEL, of San Francisco, has apparently conceived a prejudice against the use of sodium upon silver ores, and some, or all, of his atticles have found, or may find, their way into your columns. I have, therefore, deemed it desirable, in view of the immense interests in silver mining owned in Great Britain, to send you briefly some of my own views regarding the application of sodium to silver amalgamation. I have thought that your readers might be more interested in the subject if they have before them at the same time Mr. KUSTEL'S views. I have, therefore, enclosed a copy of Mr. KUSTEL'S lateriticism upon my communications to the scientific world, and have framed my own article of a reply thereto."

IMPROVED SMOKELESS FURNACE.—The peculiar feature of the furnace manufactured under the combined patents of Messrs. Vicars and Messrs. Wilson and Smith consists in the motion given to the bars to obtain a progressive movement of the fuel from the front to the back or bridge end of the furnace. This is effected by moving the bars in a mass towards the bridge, and bringing them back in detail. The bars have a travel of about 3 in. per stroke, and make detail. The bars have a travel of about 3 in. per stroke, and make a stroke in about four minutes, which causes the fuel to travel about 3ft. per hour. The rate of travel is adapted to the work to be done. When the furnace is very wide, instead of moving the bars forward together, they move each side of the furnace of half the bars alternately. The action of the furnace is the same as Juckes', but obtained by much simpler means, rendering it applicable to any class of boiler, whether fired internally or externally, as, instead of the endless chain used in Juckes', there is only a plain bar within the furnace. The mechanism, too, for imparting motion is of a very simple kind, and is not exposed to any heat that can injure it.

DONKEY STEAM-PUMP .- As a substitute for Giffard's Injector, Mesars Brown, Wilson, and Co., of Cannon-street, and the Vaux-hall Ironworks, are introducing an improved Donkey Pump, which it is claimed has the advantage over that well-known instrument that it is claimed has the advantage over that well-known instrument that it is claimed has the advantage over that well-known instrument that it can pump boiling water, and draw from a depth of 15 ft., or even 30 ft. if required. The pump has no part liable to get out of order, and all are made of steel, hardened and polished; the cylinder and all are made of steel, hardened and polished. The whole engine pump are in one casting, and bored throughout. The whole engine may be taken to pieces and put together under steam in 15 minutes, and without disturbing any pipes whatever. The pump has much to recommend it, and will be fully described in a future Journal.

Australian Gold.—The receipts of gold from the Australasian group of collonies appear to be sensibly reviving, having amounted in Sept. to 686,7771, as compared with 238,5561. in Sept., 1865, and 405,6131 in Sept., 1864. In the nine months ending Sept. 30, this in Sept. to 686,7771., as compared with 238,5561. in Sept., 1865, and 405,6131. in Sept., 1864. In the nine months ending Sept. 30, this year, the total value of the gold imported from the Australias was 4,639,3711., as compared with 2,155,2321. in the corresponding period of 1865, and 2,421,7221. in the corresponding period of 1864. It may be interesting to recapitulate the imports of gold from Australia during the eight years ending 1865:—1858, 9,064,7631.; 1869, 5,624,5661.; 1860, 6,719,0001.; 1861, 6,331,2251.; 1862, 6,704,7531.; 1863, 5,995,3681.; 1864, 2,656,9711.; and 1865, 5,051,1701. The discovery of gold in Australia excited fears, it will be remembered, in 1851, 1852, and 1853 that there would be a great depreciation in the value of that metal, a contingency which has not been realised in the least, although since those eventful years New Zealand has become a gold-producing centre. The deliveries of gold from the Australias this year promise to come up at least to the receipts in 1862 or 1863.

THE NICHOLAS WOOD TESTIMONIAL.—The course resolved upon at the meeting of subscribers at Newcastle has been already noticed, and from the excellent list of subscriptions already received (advertised in another column of this day's Journal) it will be seen that there is no doubt of the project being satisfactorily carried out. It is estimated that the amount required will be from 5000l. to 6000l., and of this rather more than 1600l. has up to this time been subscribed. Although the Institute with which Mr. Wood was so closely identified is essentially a local society, its labours have always been availed of by mining engineers throughout the kingdom and for the identified is essentially a local society, its labours have always been availed of by mining engineers throughout the kingdom, and for the solution of many of the most difficult practical questions connected with mining operations it is to the North of England Institute of Mining Engineers that the credit is due. Under these circumstances it is but reasonable to hope that when so excellent an object as the erection of a memorial to its first President is proposed the engineers in all parts of the kingdom will give their support. As the character of the Hall will necessarily depend upon the amount at the disposal of the committee, and as it is most desirable that ample provision should be made for the subsequent establishment of a Mining College, connected with the University of Durham, all who seek to elevate the mining engineers' profession should use their best efforts to make the Nicholas Wood Memorial a success in every sense of the word.

MISREPRESENTATIONS IN PROSPECTUSES.—In the case of the Estates Investment Company (Limited), it has been decided by Vice-Chancellor Wood that a prospectus must not contain any untrue state-ment of existing facts, and as he finds in this case misrepresentation to have taken place, he has decreed a return of the deposit money paid on the application for shares, and the removal of the allottees names from the register.

RIGHTS OF TENANTS OF THE DUCHY OF CORNWALL.—A special case of considerable importance in connection with mining (Hill v. Gard and others), from the Cornwall Summer Assizes, 1865, was heard in the Court of Queen's Bench, on Tuesday. The question raised was whether the tenants of the Duchy of Cornwall have a right to commit trespass for mining purposes in lands not within their setts. The defendants represented the Old Gunnislake Mine, and claimed such a right. The case was argued by Mr. Karslake, Q.C., and Mr. Bere (instructed by Mr. Eales, of Exeter), for the plaintiffs, and by Mr. Lopes (instructed by Messrs. Bridgman, of Tavistock), for the defendants. The Court decided against the right.

MINING, METALS, AND MINERALS-PATENT MATTERS. By M. HENRY, Memb. Soc. Arts, Assoc. Soc. Eng

MINING, METALS, AND MINERALS—PATENT MATTERS.

By M. Henny, Memb. Soc. Arts, Assoc. Soc. Eng..

The published specifications of patents relating to metals, minerals, and the mining and metallurgical arts have not been so numerous this week as usual; a large number of the week's specifications relate to another, and certainly searcely less important, staple manufacture of Great Britain—viz., the textile arts. This branch of industrial labour and the manufacture of fire-arms constitute the majority of the subjects of the specifications of the week. The following, however, may be interesting under the usual heading which is prefixed to this article. Among recently-filed specifications is one relating to a patent to which a paragraph in the Mining Journal made allusion some months ago—viz., Marcals: patent for obtaining tin from scories, slags, alloys, and other compounds of tin. A longer account of this invention may, perhaps, be given at some future time. The distinctive feature of the process consists in raising the scorie compounds or other matters to be treated to a high temperature, say to cherry-red heat, and then subjecting them to the action of a current of hydrochloric acid gas, whereby the th is separated from the other bodies with which it is combined; and the process also permits of the separation and collection of precious metals and other matters which may be found combined restricts himself to the use of any particular apparatus, but he describes in decision of precious metals and other matters which may be found combined restricts himself to the use of any particular apparatus, but he describes in decision of precious metals and other matter which may be found combined restricts himself to the use of any particular apparatus, but he describes in decision of the hydrochloric acid gas, the matter which may be found combined restricts himself to the use of any particular apparatus, but he describes in decisions of the process of

says that for this purpose "the gases require to be forced from the bottom up-wards through the metal whilst in a condition of fluidity, in a similar or any other manner to that in practice under Bessemer's patent, for the equal distri-bution of atmospheric air in contact with molten metal, absorbing as it then would its due proportion of carbon; graphite would be formed; the refuse with which the metal is contaminated becoming by the process discharged on the surface as strice and scories, a confirmed fibre would be established, and the metal being converted the condition of a peroxide, the iron would thus be turned into steel."

metal being converted to the condition of a peroxide, the iron would thus be turned into steel."

Although the following provisional specification does not relate to metals or minerals directly, yet it concerns them as respects the application of the metallic arts to industrial and commercial purposes, and it is difficult to understand on what grounds provisional protection was refused herein. Gedec applied for a provisional protection for a combined arm-chair and travelling bag (as a communication from L. P. Quétineau, of Paris). The invention, which has for its object an arrangement which would really appear to be conducive to the comfort of railway and steamboat travellers, consists in making a frame of angie-iron, with bands of metal or wire gauze supporting the cushion or seat. The travelling bag is a pocket with one or more compartment fixed behind the back of the chair. The arms of the chair are fixed to the seat by uprights, and attached by hooks to the back. When the article is folded the bag touches the bottom of the seat.

DAHNE, of Swansea, and THOMAS, of Cwm Avon, Taibach (we are glad that we have only to write, and not to pronounce, the name of this locality), have applied for a patent for improvements in picks and mandrils for cutting coals and other minerals. Marston, of New York, has applied for a patent for carving metal, wood, marble, and other materials to the shape of a pattern.

The following also have applied for patents:—IL LAMPSON, connecting ends of metal banis for bales.—DAWNON, consuming smoke and saving fuel.—Grunz, of Berlin, for decorating gold and metals, &c., called "Grune's proceeding," proceeding, being, no doubt, an amphibious word of the Anglo-

German phraseology, which seems so delightful and expressive to some literary mes, but which means, if we may venture to interpret, the ordinary English word "process."—Livesey, of Westminster, has applied for a patent (as a communication from Blaire, of Pittsburg for refining east-iron.—Johnsoo has applied for a patent (as a communication from Wright, of New York) for stamping, crushing, and pulverising ores and hard substances.

The following applications may also be cited:—Hopson and Brooks, compressing, rounding, and pointing wires or rods to form pins and other metal articles.—Bousfield (communication from Dr. Elmer), manufactacture of gases for producing heat, and their application to metallurgical purposes; also for treating sheet-iron plates to prepare the same for being coated with gine for making galvanised iron and imitating Russian iron (a communication from C. H. Perkins).

Sweden has furnished us with another patent relating to the metal manufactures, in which that country takes so high a rank. Goransson, of Gefle, has sealed his patent for blast-furnaces and making iron therein.—Thomas and Prince have scaled a patent for treating scoria and slag of copper ores, iron pyrites, and other ores, and for

scoria and slag of copper ores, iron pyrites, and other ores, and for reducing titanic iron ores; and C. T. Hill has sealed a patent for rolls for rolling metal.

REPORT FROM SCOTLAND.

REPORT FROM SCOTLAND.

GLASGOW, Nov. 21.—We are now getting into the flattest weeks of a year which has been characterised by anomalies of a singularly disorganising nature. The mysteriously introduced combination which resulted in the "rig" of a few months ago, and which was followed by a most depressing revulsion, has hung like an incubus over the market ever since, and neither the cheapening of money, not the reduction of the stocks in store, nor the curtailment of the produce, can impart to the market more than a passing elasticity. The recent revelations of the modus operandi of the "rig," and the confederacy who formed the operators on 'Change, brought a private vote of censure on two members of the Glasgow Stock Exchange, for being concerned in the "rigging" transactions of the Grand Trunk Railway of Canada, which also came in for a playful share of their patronage. During the week the Pig-Iron Market has shown few signs of animation, and the price has varied between 53s. 7.1d. down to 53s. 3d. prompt cash. The shipments, however, do not, in the aggregate, look as if less than an average business were doing, as they were, for the week ended yesterday, 11,378 tons, against 9300 tons in last year. Were it not that last year's shipments were exceptionally large, the comparison on the year would tell with greater effect when put into juxtaposition with last year's but as the shipments for the months of last year to date were 615,230 tons, as against 529,285 tons in the same months of this year to date, this year shows a decrease of 85.945 tons. To day the market is still with year shows a decrease of 85.945 tons. To day the market is still with shipments for the months of last year to date were 615,230 tons, as against 529,285 tons in the same months of this year to date, this year shows a decrease of 85,945 tons. To-day the market is still without life, 1500 tons only done at 53s. 3d. cash buyers; sellers 53s. 4½d. Malleable Iron has not been in so depressed a condition for very many years, and the Glasgow Iron Company have lying in a corner of their yard not less than 100,000% worth of puddled bars waiting on orders. Bars are in rather more demand, but shipbuilders' iron is neglected, the Clyde yards being rather short of orders, although a contract or two are finding their way here at intervals. Foundry iron is fairly in demand, but prices are not tempting.

a contract or two are finding their way here at intervals. Foundry iron is fairly in demand, but prices are not tempting.

Coals have given way slightly in price this week, the shipping demand having lessened with the closing of the northern ports, and with the quantity of coal brought into competition in the market by the ironmasters, who cannot otherwise dispose of it on account of the stoppage of a number of their furnaces. The quantity shipped this week was only 19,755 tons, while in the similar week of last year 25,850 tons were shipped. It is reported here, in the inner commercial circles, that the proprietary who purchased Young's Paraffin Oil Works, at Bathgate, and are now working them, are very much dissatisfied with their bargain; and it is said that Mr. Young, previous to leaving to spend the winter in the South of Italy, offered to purchase all their 100l. shares at 70l., or to give up his for a like sum. It is even hinted that the terms of the lease may yet be adjusted in the Parliament House, Edinburgh.

A mining engineer is to be appointed to examine in the most tho-

A mining engineer is to be appointed to examine in the most thorough manner the probable results that will flow from the discovery of Albertite at Strathpeffer. The Duke and Duchess of Sutherland visited the places where a bore had been sunk.

where a bore had been sunk.

ANGLE IRON v. TURNED FLANGES.—Last week the local correspondent of the Engineer reported that "Mr. W. Wilson, of the Lilybank Boilerson is now constructing stationary boilers of large size, with flanged plates bent to easy curves, instead of using angle iron. This is a step in the right direction, which we hope to see initiated by other makers." To this Mr. Robert Penman, foreman boilermaker at the Camiachie Foundry here, replies, through a Glasgow contemporary—"I am surprised that any man pretending to be a boilermaker should attempt to make the public believe that it is anything new. There is not a respectable boilermaker of any standing in Scotland who has not for many years been making boilers on the same principle. I consider it degrading to the trade that such parade should be made about a plain and long-practised mode of doing work. Our English brethren, judging from these notices, may well suppose that we are far behind in boilermaking."

REPORT FROM NORTHUMBERLAND AND DURHAM.

Nov. 22.—There is no change to notice at present in the general state of the Coal Trade here. The house and steam coals continue good, but there is room for improvement in the coking qualities, and

good, but there is room for improvement also in the trade for manufacturing coal.

The notices of intended applications to Parliament for leave to form railways, docks, &c., in this district, show most clearly that trade and commerce are rapidly increasing. The most clearly that trade and commerce are rapidly increasing. The most important of those schemes are the extension of the Northumberland Dock and other important works by the Tyne Commissioners, and also the branches, staiths, &c., intended to be constructed by the Blyth and Tyne Railway Company. One of the most important branches is that projected from Gosforth to Newburn Parish, north-west from Newcastle, as this line will give ready means of transit for coal and other minerals from that important parts of the can field to the deep Newcastle, as this line will give ready means of transit for coal and other minerals from that important part of the coal field to the deep water docks on the Tyne. This has long been a desideratum, as the main outlet for this coal has been by means of keels on the river. A short line is also projected from Ryton to Heddon-on-the-wall; this is to form a junction with the Carlisle line at Ryton, and is required for a similar purpose to the last-mentioned branch; but the range of this last branch is so very small that an extension of that from the Blyth and Tyne to Heddon-on-the-Wall would apparently serve the purpose much better. Other additions and extensions are projected by this enterprising and prosperous company—a branch to the Cambois new winning, and also a branch to Warkworth.

The Northumberland Central Railway is not prospering; the line, it appears, at present is not to be constructed beyond Rothbury. It seems that dissensions among the landed proprietors are the main cause of the little success this project has yet met with.

The ironworkers' strike now rapidly approaches a solution; the men are rapidly falling in at most of the works. At Gateshead all of them have gone in at the extensive works of Hawks, Crawshay, and Co., and also at Abbots. It is expected also that the Jarrow men will shortly be in. Of course, complaints of want of orders are pretty general and on this secount the men are not at all cografy.

and Co., and also at Adolos. It is expected also that the darrow men will shortly be in. Of course, complaints of want of orders are pretty general, and on this account the men are not at all eagerly employed by the masters as yet, but when the strife is once ended, orders will be more eagerly looked after, and, therefore, we may expect an improvement in the general state of trade here shortly. On the whole, the strike has passed quietly off; there has been little rioting, and it is hoped that all bitterness will speedily pass away,

and the men and masters will go on as before.

With respect to the remarks of a "Colliery Engineer," in last week's Journal, I quite agree with him that "it would be most unfair to question the accuracy of figures given on the authority of an Imperial Chief Engineer of Mines, and certified by eight or nine other engineers." I have no doubt whatever the account given of the performance of Lemielle's machine is substantially correct, and it must also be conceded that the quantity of air extracted exceeds the quantity that can be extracted by a furnace under similar circumstances—that is, shafts of equal area and of slight depth. But it does not -that is, shafts of equal area and of slight depth. But it does not This is shall so require a war at the single depth. But it does not follow that the machine is superior to the furnace in all respects and under any circumstances. I think "Colliery Engineer" will have seen that I do not assert anything of the kind, at any rate. I also agree with "Colliery Engineer" when he says that in denting with "so important a question as the substitution of mechanical for furnace worklistics. nace ventilation, every detail should be strictly enquired into." I submit that he has not done this, for he has assumed certain dimensions which may be incorrect; at any rate, the areas ought to be rigidly known in dealing with such an important subject; . But

should such a discrepancy exist as he suggests, I am not at all responsible, as I merely took the figures from the published account, which I believe to be correct. In conclusion, I will just suggest that air, as everyone knows, is a very elastic body, and, perhaps, the result he assumes may be due to the compression of the air within the apparatus. A water-gauge of 5.90 is equal to .223 lbs. per square inch—a very considerable pressure, and far exceeding what is met with in furnace ventilation. with in furnace ventilation.

CHESTER MOOR COLLIERY .- In two or three weeks the pumping engines for this new collery will be erected. The water flowing into the shaft has been too much for the present system of draining by tubs, although the latter lifted some 6000 gallons per hour. The new shaft, which is 12 feet in diameter, has been sunk to the depth of 30 fms. Coal is expected at 60 fms., which will soon be reached when sinking operations can be resumed. A number of collery houses are being erected.

The account half of a learner and white of a learner any angular house.

houses are being erected.

LARGE CASTING.—The second half of a large pumping-beam, for the owners of Harton Pit, has been cast at the foundry of Messrs. Murray and Co., Durham. The beam is 38 feet long, and 7½ feet in width at the centre. Thirteen tons of metal were used in the casting. The beam was cast by Mr. Ralph Harrison, the intelligent foreman moulder, who has in the course of the past quarter of a century produced some of the finest and most successful castings in the North.—Durham Advertiser.

REPORT FROM MONMOUTH AND SOUTH WALES.

Nov. 22.—There has been no real improvement in the Iron Trade Nov. 22.—There has been no real improvement in the Iron Trade of South Wales since last report, and business remains in the same depressed state as during the past few weeks. There has of late certainly been a change for the better in the demand from the United States and one or two of the other foreign markets, but this has been counteracted by the increased diffidence on the part of home buyers to enter into transactions, and the gradual closing of the long-pending and ruinous strike in the North has taken, and is likely to take, to enter into transactions, and the gradual closing of the long-pending and ruinous strike in the North has taken, and is likely to take, away some of the few orders which have found their way into the market. The reports from the leading works as to operations are, on the whole, satisfactory for the time being, but justifiable fears are entertained that unless a better feeling is evinced in the placing of contracts, the men will have to suffer from the want of the same regularity of employment that they now have. The fact is that future prospects are so uncertain and hopless that makers would not be justified in stocking; even if they were so inclined, the present rate of wages paid, and the unremunerative prices at which iron is sold, would be a barrier to their doing so. At the new Clydach Ironworks the notice of discharge has been withdrawn, and the men will continue work as usual, inconsequence of its having been decided to carry on the concern under inspection. Since the settlement of the medical and school question at Dowlais, the works have gone on satisfactorily; and among the more fortunate establishments of the district may be mentioned the Blaenavon Ironworks, where, for the past four or five weeks, the average yield of the six furnaces has been over 700 tons per week. For a long time past a westerly wind prevailed, which greatly impeded export operations, by the detention of vessels that were loaded ready for sailing. The wind, however, changed on Tuesday to a favourable quarter, and shipping iron has again become pretty active, especially on American account. A considerable quantity of iron is being cleared out for New Orleans and other Southern ports, and it is stated that a number of English houses have determined to supply iron direct to the Southern States, instead have determined to supply iron direct to the Southern States, instead of sending it to New York, as heretofore. Transatlantic orders continue to come in with a fair amount of regularity, and it is more than tinue to come in with a fair amount of regularity, and it is more than likely that at the close of the year it will be found that the amount of business done this season with America will not fall far short of the expectations held by many at the commencement. The acceptation of the mediation of France and England between Spain and the South American Republics will be received with satisfaction, as the termination of hostilities will enable the Chilians and Peruvians to renew the work of developing the resources of their respective countries, not one of the least important aids in which will be the extension and formation of railways. Business with the Russian and Canadian markets keeps steady, and orders are gradually making their appearance. The Eastern trade continues quiet, and in transactions with the Continent there is no change to report. Buyers of their appearance. The Eastern trade continues quiet, and in transactions with the Continent there is no change to report. Buyers of pig-iron are quietly making their purchases for forward delivery. The long continued activity which has characterised the Tin-Plate Trade has slackened, and prices slightly given way; a reduction of 1s. per box has taken place. In the Steam Coal trade proprietors are busy, there being in the foreign and home trades an active demand. The cold weather has produced an increased request for house coal.

The cold weather has produced an increased request for house coal, and with the West of England and Ireland a good coasting trade is being carried on. Quotations are firm, with an upward tendency.

The men that were employed at the Gilvach Colliery are still out on strike, and they express their determination not to resume work until the overman is discharged. It is stated that a full account of the facts of the case has been sent to the directors of the company, who have been requested to interfere in the matter.

case has been sent to the directors of the company, who have been requested to interfere in the matter.

At the Monmouth County Court a farmer, named Musgrave, brought an action against Messrs. James and Greenham, of the Forest of Dean, to recover 18t., the value of a borse. The plaintif rented a meadow belonging to the Countess of Dunraven, at Newland, and in Nov., 1865, he placed in it five horses. The defendants were working an iron mine, and the workings extended underneath the meadow. In consequence of the mining operations the ground sunk, and there were three or four large holes in the field, which were not fenced round. Into one of these holes, about 5 or 6 yards deep, the horse fell and broke its back. The plaintif was unable to show that defendants were under covenant to repair the land in question, and he was non-suited, paying defendants costs. There are very few railway schemes to be brought before Parliament next session in connection with this district. Notice has been given of an intention to apply for powers to bridge the Severn at a point near Lydney, and the bridge is to be named "the Compromise Bridge," from the fact that it is promoted with the view of supplementing both the Severn Junction and the High Level bridges, laready authorised by Parliament, and supported respectively by the Midland and Great Western Companies, but not as yet carried out. The shortening of the distance between the South Wales and Forest of Dean coal fields and the Metropolis and the West of England is the chief object sought to be attained, and it is generally agreed that if a bridge can be successfully thrown over the Severn the mineral traffic over it would be so large as to amply repay the capital outlay. To the two bridges already authorised it is objected that one is too high up the river to accommodate South Wales and Forest of Dean coal fields and the Metropolis and the Metropolis and the Metropolis and the Metropolis are several properties and the Metropolis and the Metropolis and the Metropolis and the Me

The new works of the Oldcastle Iron and Tin-Plate Company (Liited), niar Lianelly, are approaching towards completion, and the promoter ope to commence active operations about the beginning of the year. There forge and two mills, and it is proposed to start with about 120 hands and two lills, though, when in full work, there will be room enough for 300 hands. Mr avid Davies is the manager, the application of whose experience in the car avid Davies is the manager, the application of whose experience in the car-ing on of the works augurs well for their proper management. On Monday a moulder, in the employ of Mr. Richard Nevill, of the

on bonday a monator, so a severely injured by a casting falling on him, a was taken up and properly cared for, and is now in a fair way of recovery.

New spelter works on a very large scale are in course of erection ows, near Swansea, the property of Messrs. Shackleford, Ford, and wagon manufacturers. An extensive trade will be carried on, n the preparations that are being made, and the range of building

working in a headway or stull at Mr. Walmer's new Stapledge Colliery. The coal, which is several feet thick, suddenly fell, and crushed the deceased to death. An inquest was commenced at the Albion Inn, Viney Hill, on Monday, before Mr. J. Teague, Coroner, and adjourned to Tuesday next, in order that the Home Secretary and Mr. L. Brongh, Inspector of Mines, should be communicated with. THE PAYS.—A multiplicity of evils arise from the present mode of paying the colliers and miners in this district. The greater portion of the men are paid by "gaffers" at public-houses, frequently at a late hour on Saturlay evenings. Many have then to return to their homes, varying from one to ive miles distant, through euclosures and bad roads. On Saturday night, it being "Mr. Crawshay's pay," one young man was attacked by three men as he was going home. His money was demanied, and refusing to give it up he was mocked down and robbed of all he had, upwards of 21. There was a second cittim, who lost a similar amount.

knocked down and robbed of all he had, upwards of bl. There was a second victim, who lost a similar amount.

RIGHT OF GALE.—A case was heard last week in the Monmouth County Court, before Judge Herbert, in which William James, of Oakwood Mill, was plaintiff, and John Doward, a mineral agent, of Clearwell, near Coleford, was defendant. The former was represented by Mr. T. G. A. Williams, solictor, Monmouth, and Mr. Carter, of Nownham, for the defendant. Mr. Williams handed to his Honour the "Forest of Dean Award," in which it was shown, according to his argument, that the plaintiff was entitled to the Nockey Tump Level Colliery, in dispute. It would appear from the argument of Mr. Carter, the whole case rested upon the words "to the old workings." Mr. Goodrich Langham, of the Gaveller's Office, was then called by the plaintiff, whose evidence went to show that the property at issue was Jame's. He also produced a plan of Nockey Colliery. From the defendant's showing, it would appear he owned an adjoining collery, the Chapel Mar, and the "old workings," through which the action was brought, was his property. After a long hearing, his Honour compared the plan on the approbation with that produced from the Gaveller's Office, and found them to agree with the evidence adduced for the Gaveller's Office, and found them to agree with the evidence adduced for the plaintiff, and subsequently said he should reserve his Judgment, and in the meantime he would communicate with the Commissioners. There are a great number of old collieries in the Forest of this description; they have been closed for many years, principally for want of capital and proper railway communication. It is thought that should the latter be advantageously supplied, much litigation will follow in the question of right of Forest gales, as formerly any person who felt disposed could take "his plekaxe and shovel" and commence a colliery, thereby claiming a gale.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Nov. 22.—The Iron Trade continues quiet, and it is pretty clear that we must wait until spring for any decided improvement. The lowness of stocks, however, causes small orders to come in continuously, and some of the works are engaged in the completion of the contract for best Staffordshire iron for the East Indian Railway Company. There is no decided change in the Hardware Trades. The last Australian mail brought very few orders, but the advices are more hopeful. It is satisfactory to be able to state that the East Indian markets, which have been so long depressed, are taking rather more hardwares. The lock-out in the Staffordshire Potteries is happily over. As stated last week, the matter in dispute was that of annual hirings, which have long been the rule in the earthenware trades of North Staffordshire, but which have been much objected to, especially by the overmen and pressers. The masters insisted on the maintenance of the plan of annual hiring, on the ground that they have to make engagemements, especially in reference to the foreign markets, for a considerable period in advance; and that they shall be able to calculate upon a certain number of men to keep their works in operation. Thus ends what, if persisted in, would have been a calamity whose magnitude it is difficult to overestimate, and it is satisfactory to find that this has been obtained by the two have been a calamity whose magnitude it is difficult to overestimate, and it is satisfactory to find that this has been obtained by the two parties meeting and discussing the difference between themselves in the proper spirit of mutual respect.

Mr. J. H. Davenport, of the Metropolitan Carriage and Wagon Works, Saltley, has been presented with a valuable gold Albert chain, as "a testimonial of his honesty, integrity, and business capabilities during his five years" connection with these works," having won the esteem and regard of every workman in the place.

man in the place.

MINE AGENTS' ASSOCIATION FOR SOUTH STAFFORDSHIRE AND EAST WORKESTERSHIRE.—On Monday a very numerously attended meeting of mine agents of South Staffordshire and East Worcestershire (convened by circular) was held at the hotel, Dudley, the object of the meeting being to consider, in the first place, "The alterations proposed in the new code of colliery rules, by Mr. Baker, the local Government Inspector, previous to their being sanctilined and adopted generally by the masters, and for the purpose of considering the desirability of entering into a Mine Agents' Association of the whole body, for their mutual protection and aid, and for the discussion, from time to time, of matters relating to their practice." Mr. Job Taylor was voted to the chart, and briefly stated the objects for which the meeting had been called. The attensive alterations proposed by the Government Inspector were the add over, tensive alterations proposed by the Government Inspector were the dad over, and the trade befores that these objections should be laid before the Inspector and the trade before they were generally adopted throughout the district. A somitimately selected the produced in meetings are to be held for the discussion of all matters relating to their practice. The next meeting was fixed for Doc. 19, at the Hotel, Dudley.—Wolverhampton Chronicle.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Nov. 22 .- In North Derbyshire trade remains in about the same Nov. 22.—In North Derbyshire trade remains in about the same state as noticed last week, and so far as the coal business is concerned, notwithstanding that a considerable number of men have been discharged, there has been very little diminution in the quantity exported. The demand for coal for the London market continues active, as merchants appear desirous of having stocks by them in the event of a change of weather, which might induce a considerable run. There is no appearance whatever of the dispute between the masters and their men being brought to a conclusion, for the former appear determined on no account to submit to what they consider the dictation of persons who are in no way connected with the former appear determined on no account to submit to what they consider the dictation of persons who are in no way connected with them or with the district. On Saturday, in all probability, the men working at Springwell Colliery, who reside in the houses belonging to the Staveley Company, will have notice to leave them at the same time that their working notices expire, on Dec. 1. In anticipation of this, some of the leaders have applied to Mr. Senior for some ground at Whittington, on which to erect tents or temporary buildings as that a part and printing account progress to spring up. ings, so that a new and primitive colony promises to spring up, the inhabitants of which have long enjoyed comfortable quarters, and comparative influence, which they appear determined to forsake and comparative influence, which they appear determined to forsake for Union principles. Whether their families have been consulted does not appear, but it seems something very close akin to cruelty for them to give up good homes in the winter at the request of those who have never done them any good. It is truly a serious responsibility for those who have counselled and directed the men at Staveley, and it is to be hoped that the consequences will not at all come up to what is generally anticipated.

The Iron Trade in Vorkshire remains upplied with the

The Iron Trade in Yorkshire remains unaltered, with the exception that the men at two or three large firms who have been out for a short time, owing to their having refused a 10 per cent. reduction, have resumed work, having accepted the terms offered by the mas-ters—terms which the present condition of the iron business ren-dered imperative. The demand forsteel continues good, and makers of the finest brands, Bessemer in particular, continue to be well supplied with orders, not only for the plain article, but also for the

mense quantity of the surface near to the colliery, making vasthole in the ground equal to the largest excavations for foundation purposes. Many thousand loads of stuff were shifted, no small portion of which it is expected was swept into the pit. At present the whole of the workings, about 80 acres in extent, are filled up, whilst the water is up about 30 yards in the three shafts. Some months will elapse before it is cleared. Fortunately none of the men were in the workings, otherwise the consequences would have been serious.

The Lords of the Admiralty have entered into a contract with Messrs. Cammell and Co., of the Cyclops Ironworks, Sheffield, for the manufacture of 200 tons of rolled armour-plates, for the turre iron-clad ship Monarch (6), 1100-horse power, building at Chatham. The contract price for the plates is 292. 18s, per ton. The manufacture of the engines and machinery for the Monarch has been intrusted to the firm of Humphreys, Tennant, and Co.

The recent notices in the press as to the results of strikes on the coal trade of the country have been the means of elucidating many important and even startling facts. The following review of the progress made in the principal coal fields of England will be read, opening the press has the press have the press have been been the means of the press of the progress made in the principal coal fields of England will be read, open the press have have the press have have the press have mense quantity of the surface near to the colliery, making vast ho

FOREIGN MINING AND METALLURGY.

The meeting of the Belgian General Railway Plant Company, held to consider the dissolution of the company, appears to have separated without coming to any definite decision. A "Cercle Industriel" has just been formed at Brussels, the object being to establish closer relations between engineers and industrials. Railways, banks, mines, public works, and great industries will furnish the constitutive elements of the "Cercle," the founders of which appeal for assistance to Belgian provincial and even foreign engineers, who may become members of the new institution, and assist at its meetings. In 1865 the imports of English pig into Belgiam attained a total of 24,864 tons, against 9372 tons in 1864. The exports of Belgian pig only amounted to 10,711 tons, showing a balance on the wrong side of 14,163 tons. This latter total represents approximately the quantity of pig entered free of duty under the arrangements of the law of 1816 on warehouses. These totals refer to 1865, and this year the importations of English pig into Belgium are stated to have assumed a still more considerable extension. At Charlerol, as well as at Liege, the English arrive with casting pig at a price against which Belgian Industrials find it very difficult, if not Impossible, to contend. A comparison of the years 1866 and 1865 will thus be, at least, as significant as those of 1865 and 1864. The comparative exhaustion of the steed of pig in English would, of course, reduce the exports from that country to Belgium; but this state of things is far from being realised. Meanwhile it will be readily understood that the Belgian blast-furnaces are particularly affected with depression. The rolling-mills sustain themselves better, although, as has been before observed, plates and merchants' bars have been more feeble for several days past. It is still impossible to give quotations with exactitude. The Roux rolling-mills will, it is said, not be sold for the present, although the subject has been under consideration. At the last meeting of the Forgemas The meeting of the Belgian General Railway Plant Company, held

animation; if Chilian has been rather firmer, holders show themsel much more reserved, and sellers obtain with difficulty the terms for much more reserved, and sellers obtain with difficulty the terms formerly paid; disposable and to be delivered are dealt in at 76t. to 77t, the article closing feeble. At Paris affairs have displayed little animation, Chiltan having been feeble at 77t. to 78t., and Gorocro mineral at 80t. per on, On the German markets prices have been tolerably firm, but the demand scarcely exceeds at present the requirements of daily consumption. Advices from Holland as to tin are very encouraging; sales have been rather considerable during the last few days, as well at Amsterdiam as at Rotterdam, and prices have displayed a tendency to advance; 2000 blocks at 478 fl., 6300 blocks at 478 fl., 500 blocks at 478 fl., 500

charcoal-made pig the movement of affairs is scarcely more animated than in Iron; a contract has been concluded in this article at 41, 83, Udd. per ton delivered. It was announced some time since that the Vezin-Auhove Company, which recently purchased the Bols-du-Tilleui Work, near Maubeure, had concluded a contract for 1000 tons of rails, at the rate of 71.8s, per ton, delivered with the Northern of France Railway Company. We learn now that the rate per ton is 71.12s, instead of 71.8s, per ton, and we hasten to rectify the error. The Bully-Grenay Collieries Company is now paying a dividend for the first half of the exercise 1863-6, or 10s, per sixth share. Meetings are announced as follows:—Moselle Colliery Company, Nov. 24, at Paris; Province of Santander Mines and Foundries Company, Nov. 26, at Paris; Franche-Conté Blast Furnaces and Forges Company, Nov. 29, at Besançon; Basse-Indre Forges Company, Nov. 29, at Paris; and Pentgibaud Mines Company, Nov. 30, at Paris.

It was recently announced that the coal of the Ruhr district had penetrated to Liege, and that Prussia had sent its coal to Antwerp

in the trapidly growing under the hands of the contractors.

Messrs, E. Boughton, Smith, and Co., of Pontardulis, are erecting from the preparations of the manufactured, tyres and springs being in good request. Makers of the manufactured, tyres and springs being in good request. Makers of the manufactured, tyres and springs being in good request. Makers of the manufactured, tyres and springs being in good request. Makers of the manufactured, tyres and springs being in good request. Makers of the manufactured, tyres and springs being in good request. Makers of the springs of the Morfa Thi-Plate Works, Lianely, and the theory of the Tongalant the transfer of the Morfa Thi-Plate Works, Lianely, and the third the transfer of the Morfa Thi-Plate Works, Lianely, and the third the transfer of the Morfa Thi-Plate Works, Lianely, and the third the transfer of the Morfa Thi-Plate Works, Lianely, and the third the transfer of the Morfa Thi-Plate Works, Lianely, and the theory of the Tongalant the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works on the Fort Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, Lianely, and the transfer of the Morfa Thi-Plate Works, and the t

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gale; capital is not likely to make default in this case, the Centre of Gilly having purchased its new acquisition out of its profits. The sum paid for the property is understood to have been 44,000t.

As regards miscellaneous items, we may note that a Breslau letter
states that the forgemasters of that district have determined on an states that the forgemasters of that district have determined on an advance in the price of rolled iron. The augmentation made was indispensable, in order to bring selling prices into a due relation with est prices. The advance is made for a month, at the close of which a fresh said to be not improbable. The Frederick William Mines and Ironworks Company will pay Jan. 2, 1867, a dividend for the exercise 1865-6 22½ thalers dividend for 10 per cent. for the exercise 1865-6. The Neu-Oege Mines and Ironworks Company will also pay a dividend, Jan. 2, 1867, for the exercise 1865-6. All these three dividends are payable at Cologne. Meetings are announced as follows:—Austrian Company for the Fabrication of Chemical and Metallurgical Products. Nov. 26, at Vienna; Carlsrube Company for the Construction of Machines, Nov. 28, at Carlsrube; and Darmstadt Company for the Construction of Machines, Nov. 28, at Darmstadt.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

At GREAT RETALLACK MINE the operations are being vigorously

At GREAT RETALLACK MINE the operations are being vigorously prosecuted. The engine is in course of removal, and will be at work in about 1800 months time. Samples of silver-lead from the two lodes have been assayed, and give the following result:—No. 1 lode: 75 per cent. for lead, and 37 ozs. of aliver to the ton. No. 2 lode: 76 per cent. for lead, and 28 ozs. of silver per ton. The VAN MINE (Llanidloes).—On Wednesday the ceremony of starting the large water-wheel and crusher, just manufactured by Mesers. Leigh and Gibert Howell, of the Bagilli Foundry. near Holywell, was celebrated, The wheel, which was christened the Mary Emma, is 50 ft. diameter and 4 ft. breast started, upon the water being turned on, most smoothly, and gave the preatest started, upon the water being turned on, most smoothly and gave the preatest praise is due, as well in this as the general management of the mine, and we were happy to hear that the prospects of the company are satisfactory. South Conductor of Cept. Williams, to whose judgment and ability the cast is also improved, and now producing good saving work. This mine bids fair to become a prize ere long.

EAST PROVIDENCE.—It is gratifying to the shareholders of this mine to see the improved prospects during the past two months. They are now making profits under the able management of Capts. Nancarrow and Kitto, and their purser, Thomas Hollow. There can be little doubt that it will before long profession to its rich neighbour. Providence. They are now sampling some rich unstuff, which leaves a good profit.

PROSPER UNITED.—This extensive mine will, ere long, reward those who have held on their shares during a season of difficulty. The mine has of late so materially improved, that there is now a good monthly profit being made. The purser has informed the shareholders that in a few months they are expect a remunerative dividend, and, judging from the present prospects of the mine, a continuance of dividends may be reasonably anticipated. The reserves have considerably increased sinc

g deeper.

Weper.

WHEAL AGAR.—The lode in the 140 fm. level has been cut through feet wide, making the lode altogether 12 feet wide, worth upwards of 301, per ghom. The north lode in the 110 is also looking more promising than at any owner period. This will be the prize of 1867.

The HARWOOD MINE is rapidly and quietly developing itself. As led of 20 tons of lead ore was made very recently, and it will be observed by the eport in our usual column that another and still larger parcel is nearly ready. That, however, is more important is the fact that the new viel will shortly bommence to add a profit, instead of by the level which has reached it having en all "dead work." By this level the produce of both mines will be extracted an immense saving of cost, and all the work dressed upon the same floors, be opinion expressed upon this property by Mr. Evan Hopkins should not be verlooked.

oked.

CHIVERTON MINING DISTRICT has proved wonderfully rich, still in its infancy. West Chiverton Mino shares were 10t. in 1863, they we 60t., and paying 8t. yearly in dividends, being 13½ per cent. upon pre-tilay: 46;125t. has been given in dividends. Chiverton shares, which were at 3½ a few weeks back, and now 8½, will soon double the price. The fast advancing to a dividend state. East Chiverton Mine has greatly red; shares are well worth looking after at their present low price—25s. They have just cut the Chiverton lode, which is very promising. A good de, which is only a matter of a littletime, will put East Chiverton shares in a few weeks.

SALE OF THE GREAT DEVON AND BEDFORD (COLCHARTON) MINE SALE OF THE GREAT DEVON AND BEDFORD (COLCHARTON) MINE AND ENTATE.—Mr. Thomas Blake (of Ross) sold, by public auction, on Tuesday, at the Auction Mart, the whole of the above freehold estate, the company being now in course of voluntary winding-up. The auctioneer stated that the property originally cost the company 15,0001, and 12,5001, had been expended in machinery and the necessary workings to develope the mine. The reason for the present sale was that the capital of the company was exhausted, and the liquidator feared that if the present limited operations were kept on there would be but a small balance (if any) to divide amongst the shareholders from the present sale. The lot was started at 20001, and ultimately knocked down at 6501. The machinery on the mine cost upwards of 30001, and the farm produced at the present rental 1101, per annum: 1601, per year had, however, been offered to the auctioneer for a term at the expiration of the present holding.

OUR COAL RESERVES.—Prof. Jevons, referring to the lecture he ellevered at Manchester, and published in last week's Journal, writes—"I am poptied to have said, concerning the working of deep coal, that 'no one was about as to suppose that they should ever get to that depth '(4000 feet), that I said, however, was that no one could suppose we should work out the alto that depth in 100 years, or any such period. I believe that fine seams coal may easily be followed to a greater depth than 4000 feet, the question ting entirely one of cost."

of coal may easily be followed to a greater depth than 4000 feet, the question being entirely one of cost."

THE MINERS' CONFERENCE AT NOTTINGHAM.—On Friday, the Conference considered the effect of rule 31, which is as follows:—"All members reaching the age of 55 years, having paid as members of the association 10 years after this rule was adopted, shall, if unable to work in consequence of old age, receive the sum of 6s. from the funds of the association." An opinion was expressed that the existing funds were not sufficient to meet these expenses, and that the matter should be left to the local societies. On the motion of Mr. Casey, the following was adopted unanimously:—"That the rule remain for consideration during the next six months, and that its adoption be recommended in the whole of the districts." With reference to rule 15, relating to the entrance fees of members, it was resolved that the fee should in no case be less than 2d., but that the amount should be guided by the funds in the hands of the association.—Mr. Jackson said they had 40,000 members in the association, and as that number at 1d. each per month would bring in more than 2000., be thought 1d. would be sufficient.—Several members said that amount would be insufficient. The auditors' report was presented by Mr. Burt and Mr. Casey, and it appeared that the income of the association during the last five months had amounted to 5001, 16s, 4d.; and, deducting the expenses during the five months, there was a balance in hand of 6441, 10s. 10\frac{1}{2}d.—Mr. Casey and the Conference was 2001, richer than at their last meeting.—The President said that his late liness was a balance in hand of 6441, 10s. 10\frac{1}{2}d.—Mr. Casey and the Conference was 2001, richer than at their last meeting.—The President said that his late liness was the cause of Scotland being behind in her subscriptions.—The auditors' report was adopted. A vote of thanks was unanimously awarded to the retiring officers, and Mr. P. Donald was re-elected President. Mr. P. Casey, se

NEW WORK BY MR. W. FAIRBAIRN, C.E. nesday next, in crown 8vo., with plates and woodcuts.

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NOTICE OF REMOVAL.

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NOTICE.—CAPT. S. M. RIDGE, of LLANIDLOES, MONTGOMERYSHIRE (late manager of the Brynpastig and Cwm Fron Mines, and others, in Shropshire and Wales), is NOW OPEN to INSPECT and faithfully REPORT UPON ANY LEAD MINE in either of these localities that may be confided to his care, having had better than 30 years' experience in lead mining, as miner and agent.—Address, Capt. S. M. RIDGE, Llanidloes, Montgomeryshire.

Sale of Engines, &c.

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE.

THE COMMISSIONERS for Executing the THE COMMISSIONERS for Executing the Office of Lord High Admiral of the United Kingdom of Great Britain and Ireland, do hereby give notice, that on Tuesday, the 11th December next, at Two CHASE of the ENGINES, &c., of Her Majesty's able Furious, lying in store at Her Majesty's Dockyard at Portsmouth.

Persons wishing to become purchasers must apply to the Superintendent of the Yard for notes of admission to view the engines, &c.
Catalogues and conditions of sale may be had here and at the Yard.
No tender will be received after Two o'clock on the day of treaty, nor will any be noticed unless the party attends, or an agent for him duly authorised in writing.

Every tender must be addressed to the Secretary of the Admiralty, and bear in the left-hand corner the words "Tender for Engines, &c.," and must also be delivered at the Department of the Storekeeper-General, Admiralty, Somerset House, Nov. 23, 1866.

Contract Department, Admiralty, Somerset House, Nov. 23, 1866.

Contract for Coals for Ascension

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE.

THE COMMISSIONERS for Executing the Office of Lord High Admiral of the United Kingdom of Great Britain and Ireland, do hereby give no.

Two o'clock, they will be READY to TREAT with such persons as may be willing to CONTRACT for SUPPLYING and DELIVERING into store as Ascension, TWO THOUSAND FIVE HUNDRED TONS of COALS, fit for the service of Her Majesty's steam-ships and vessels. One-half of the coals to be shipped by the 31st January, and the remainder by the 28th February, 1867. One-third of the quantity to be shipped in each of the above-mentioned periods to consist of North of England Coals, and two-thirds of South Wales Coals.

A form of the tender and conditions of contract may be seen in the lobby of the Storekeeper-General's Department, Admiralty, Somerset Houses. No tender will be received after Two o'clock on the day of treaty, nor will any be noticed unless the party attends, or an agent for him duly authorised in writing.

Every tender must be addressed to the secretary of the Admiralty, and bear in the left-hand corner the words "Tender for Coals for Ascension," and must also be delivered at the Department of the Storekeeper-General, Admiralty, Somerset House, accompanied by a letter signed by two responsible persons, engaging to become bound with the person tendering in the sum of £25 per cent. on the value for the due performance of the contract.

By order, ANTONIO BRADY,

Registrar of Contracts and Public Securities.

Contract Department, Admiralty, Somerset House, Nov. 20, 1866.

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S A N D Y S, VIVIAN, AND CO., COPPER HOUSE FOUNDRY, HAYLE, CORNWALL, ENGINEERS, IRON AND BRASS FOUNDERS, MANUFACTURERS of PUMPING ENGINES for WATER-WORKS, MINING MACHINERY, MATERIALS, and TOOLS of every description. Foreign mines supplied on the best terms, and at the shortest notice. Second-hand Mining Machinery and Pitwork in Stock; also a new 4 and a 2-horse power high-pressure vertical engines, with bollers, and a second-hand 19-inch with negline, condensing.

ELECTRIC TELEGRAPH WIRE.—
FORTY MILES of SILVER'S PATENT CAOUTCHOUC INSULATED TELEGRAPH CABLE, 3-16ths inch diameter, copper conductor, price £3 per mile. Larger sizes in proportion. These ropes were made for the Southern States of America, just before the close of the war, are in perfect order, and offered at about a fourth of the cost price. They are well worth the attention of anyone desiring a cheap mode of communicating down coal pits, to distant works, &c.—Apply to GARNOCK, BIBBY, and Co., Hemp and Wire Rope Manufacturers, Liverpool.

U L C A N I S E D I N D I A - R U B B E R,
FOR ENGINEERS AND MECHANICAL PURPOSES.
VALVES—for Marine and Land Engines' Steam Packing, sheet or roll.
DELIVERY AND SUCTION HOSE—for Brewers, Distiliers, Fire-engines

ardens, &c.
MACHINE BANDS—for all descriptions of Machinery.
GAS TUBING—with or without wire.
GAUGE GLASS RINGS; WASHERS.
Price Lists free on application.
SOUTHWARK INDIA-RUBBER COMPANY (LIMITED).
67, GRANGE ROAD, BERMONDSEY, LONDON, S.H.

NITRO-GLYCERINE, OR NOBEL'S PATENT BLASTING OIL.—The EXPLOSIVE FORCE of this BLASTING OIL is TEN TIMES that of GUNPOWDER, and the ECONOMY and SAVING in TIME, LABOUR, and COST in removing granite and hard rock, in sinking shafts, driving tunnels, and opening forward in close ends is immense. It will not explode from a spark or fire, but from concussion alone, and is consequently much less dangerous than gunpowder or gun-cotton. Being heavier than water it sinks to the bottom of a wet hole, no other tamping than water being required.

Being heavier than water it sinks to the bottom of a wet hole, no other tamping than water being required.

One charge of this blasting oil, which is now being used with wonderful effect in all the largest slate quarries in North Wales, will displace as much slate rock as four or five charges of gunpowder; and its great force, acting on a large quantity of good slate rock, shakes and displaces it at the natural joints, or cracks, without damaging the slabs nearly so much as the more numerous blasts from any other blasting material would do.

This invaluable quarrying agent may now be obtained from Messrs. Webb and Co., Carnarvon, sole consignces from the patentee.

IMPROVED APPLICATION OF WATER-POWER.

THE TURBINE.—MAC ADAM BROTHERS AND CO., ENGINEERS, SOHO FOUNDRY, BELFAST, have been engaged for fitteen years, with complete success, in MANUFACTURING their IMPROVED TURBINES, and can recommend them with confidence.

This machine is applicable to all practicable heights of fall and quantities of water, giving a much higher percentage of power than any other description of water-wheels.

water-wheels.

O low falls it has the additional advantage of not being affected by floods or On low falls it has the additional advantage of not being affected by floods or One water is variable.

Further particulars on application, also references to turbines now at work on a great variety of falls.

Memorial to the late Nicholas Wood, Esq.

Amount previously advertised	45	14	0
The Hetton Coal Company, Hetton	250	0	0
Institute of Mining Engineers Newscotte	100	0	0
Hugh Taylor, sen. Esq. Chairman of the Coal Trade			
Earsdon	100	0	0
Hugh Taylor, jun., Esq., Chipchase Castle	100	0	0
Edward Potter, Esq., Cramlington	100	0	ŏ
John Taylor, Esq., Earsdon	100	0	0
Messrs. James Joicey and Co., Newcastle	100	0	0
Messrs. R. Stephenson and Co., Newcastle	25	0	0
Chas. Wm. Anderson, Esq., Cleadon Park	21	0	0
R. S. Johnson, Esq., Haswell	21	0	0
G. B. Forster, Esq., Backworth	21	0	0
T. G. Hurst, Esq., Backworth	20	0	0
James Hughes, Esq., London	10	10	0
H. S. Stobart, Esq., Witton Tower	10	10	000000
F. F. Boyd, Esq., Moor House	10	10	0
W. A. Wooler, Esq., Cold Knott	10	6	0
R. W. Swinburne, Esq., Newcastle	6	6	0
George Cockburn, Esq., Newcastle	6	6	0
David Greig, Esq., Leeds	6	6	0
Andrew Reid, Esq., Newcastle	6	6	0
John Wilson, Esq., Leeds	6	6	0
The Tyne Iron Company, Newcastle	5	5	0
Christian Allhusen, Esq., Newcastle	5	5	0
J. J. Atkinson, Esq., Chilton Moor	5	5	0
Mr. George Clark, Sunderland	5	5	0
Mr. George Clarke, Jun., Sunderland	5	5	0
Messrs. Armstrong and Foster, Sunderland	5	5	0
S. B. Coxon, Esq., Usworth	5	5	0
Wm. Cockburn, Esq., Hutton House	- 5	5	0
Messrs. Samuel Tyzack and Co., Sunderland	5	5	0
R. P. Philipson, Esq., Newcastle	5	0	0
John Middleton, Esq., Newcastle	5	0	0
Cuth. Berkley, Esq., Marley Hill	5	0	0
Crawford Marley, Esq., Darlington	- 5	0	0
The Rev. the Vicar of Newcastle	5	0	0
Robert Sharp, Esq. (second subscription), Sunderland		0	0
Messrs. R. Richardson and Son, Hull	3	3	0
Henry Watson, Esq., Newcastle	3	3	0
Mr. Thomas Hamilton I man Co., Newcastle	8	3	0
Mr. Robert Filiett Penghan (general subscription)	9	3	0
William Hunter For Newsestle	2 2	18	0
Mr. John Swellow, West Hester	2	2 2	0
Mr. Michael Hopper, Hetter Colliers	2	2	0
Movers Bood and Sone Newcostle	-	2	0
Wm Green tun Fee Newcastle	-	2 2	0
Robert Simpson For Blandon	9	9	0
J. R. Simpson, Esq., Blaydon	- 6	2 2	0
Mr. J. Fawcett Dittington		10	0
Frank N. Wardell Plachetta Colliery Northumberland	•	1	0
Mr. Joseph Roscomp, Flamore	- 1	1	0
Mr. Daniel Bland Murton Moor Cottage	1	1	0
Mr. Stephen Gibbon, Murton Moor	- 1	4	0
Mr. William Minto Hetton le Hole	•	1	0
Mr. George Stott Ferry Hill	i	î	ŏ
Mr. Robert Clay Sunderland	î	1	o
Mr. Michael Johson, Downs	î	i	0
Mr. William Spenser, Gateshead	î	î	0
Mr. George Dixon, Bensham Cottage	î	î	ő
Mr. John Corbitt, Bensham	1	i	0
Mr. William Hepplewhite, Lyons	i	i	0
Mr. James Davison, Dalkeith	1	i	0
Mr. J. J. Roddam, Stanhope	î	î	0
Wm. Alexander, Esq., Glasgow	î	î	o
Mr. Wm. Anderson, Chilton Moor	i		0
George H. Gooch, Esq., Lintz Colliery	i	0	0
Mr. John Wakefield, Lyons	i	0	0
Mr. William Rennie, Moorsley	ô		0
Mr. John Hately, Houghton	ò		6
Mr. Walker Tate, Elemore,	0		6
Mr. Joseph Johnson, Carr House	Ö		6
Mr. Joshua Lancaster, Wigan	Ö		6
Mr. Henry Jackson, Tyldsley, near Manchester.	o		6
Mr. Ralph Cleghorn, Lyons	ò		0
Mr. John Cowell, Moorsley	č		666000
Mr. Daniel Fawcett, Pittington	o	10	0
Mr. Thomas Elliott, Pittington	Č		0
Mr. George Mitcheson, Hetton	0	10	0
John Wakefield, Elemore	Ü	10	000
			-
Amount previously advertised Phe Hetton Coal Company, Hetton P. E. Forster, Esq., President of the North of England J. T. E. Forster, Esq., President of the North of England J. Institute of Mining Engineers, Newcastle Barsdon Hugh Taylor, jun., Esq., Chalrman of the Coal Trade, Earsdon Hugh Taylor, jun., Esq., Chipchase Castle Edward Potter, Esq., Cramlington John Taylor, Esq., Earsdon Messrs, Ames Joicey and Co., Newcastle Messrs, R. Stephenson and Co., Newcastle Messrs, R. Stephenson and Co., Newcastle Messrs, R. Stephenson and Co., Newcastle Gas. Wm. Anderson, Esq., Cleadon Park R. S. Johnson, Esq., Backworth James Hughes, Esq., London H. S. Stobart, Esq., Witton Tower F. F. Boyd, Esq., Moort House W. A. Wooler, Esq., Cold Knott R. W. Swinburne, Esq., Newcastle George Cockburn, Esq., Newcastle George Cockburn, Esq., Newcastle John Wilson, Esq., Leeds The Tyne Iron Company, Newcastle John Wilson, Esq., Leeds The Tyne Iron Company, Newcastle J. J. Atkinson, Esq., Chilton Moor Mr. George Clarke, Jun., Sunderland Mr. George Clarke, Jun., Sunderland Mr. George Clarke, Jun, Sunderland Mr. H. Philling, Esq., Newcastle John Middleton, Esq., Newcastle John Middleton, Esq., Newcastle John Middleton, Esq., Newcastle John Middleton, Esq., Newcastle Mr. Thomas Henglen, Newcastle Mr. Thomas Henglen, Newcastle Mr. Thomas Henglen, Newcastle Mr. Thomas Henglen, Newcastle Mr. Honas Henglen, Newcastle Mr. Thomas Henglen, Newcastle Mr. Honas Henglen, Newcas	1	11	0

Total£1612 6 6

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MR. T. E. FORSTER.

MR. I. BELL

MR. EDWARD POTTER.

MR. R. P. PHILIPSON.

MR. GEORGE ELLIOTT.

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By any of the bankers in Newcastle-on-Tyne, and by the Treasurer and Secretaries.

G. B. FORSTER, Backworth, near Newcastle, Hon.

JOHN TODD, Hetton-le-Hole, Fence Houses, Secretaries

GALLOWAY'S PATENT CONE TUBES FOR STEAM ALLOWAY'S PATENT CONE TUBES FOR STEAM BOILERS.—The introduction of these vertical taper tubes into the ordinary fined boilers PROMOTES the NECESSARY CIRCULATION of WATER, and thus INCREASES THEIR STRENGTH and DURABILITY.
Their adoption not only adds to the steam-producing power of the flues, but renders the practice of hooping with angle or tee iron rings quite unnecessary.
The tubes have now been in use upwards of 14 years, and above 22,000 are in work in various parts of the country, with the best results.

They can be easily fixed in existing boilers (owing to their taper form) by any boiler maker, but can only be obtained from the patentees, W. and J. GALLOWAY and SONS, Engineers and Boiler Makers, Manchester.

Swan Rope Works.

A R N O C K, B I B B Y, A N D C O.,

MANUFACTURERS of FLAT and ROUND HEMP and IRON and STEEL

RE ROPES for MINING, RAILWAY, and SHIPPING PURPOSES.

MANULA ROPE of SUPERIOR QUALITY, FIFTY PER CENT. STRONGER

d THIRTY PER CENT. CHRAPER than Russian hemp rope.

WIRE ROPE of FIRST QUALITY WIRE, and the HIGHEST STANDARD

STRENGTH.

Patent Flat and Round Wire and Hemp Ropes, &c.

JOHN AND EDWIN WRIGHT, PATENTERS, CITY OFFICE. 19, LONDON STREET, E.C. ESTABLISHED 1770.

Manufacturers of every description of
IMPROVED PATENT FLAT AND ROUND WIRE ROPES,

PROVED PATENT FLAT AND ROUND WIKE ROPES
From the very best quality of charcoal iron and steel wire.
PATENT FLAT AND ROUND HEMP ROPES.
CONDUCTORS, STEAM PLOUGH ROPES (made from Webster and Horsfall's patent steel), WIRE, HEMP, FLAX,
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UNIVERSE WORKS, MILLWALL, POPLAR, LONDON,
UNIVERSE WORKS, GARRISON STREET, BIRMINGHAM,
No. 2, OSWALD STREET, GLASGOW,
CITY OFFICE, No. 19, LONDON STREET, LO

O A L C U T T I N G M A C H I N E R Y.—
The WEST ARDSLEY COMPANY having, by recently patented improvements, perfected, their coal cutting machinery, worked by compressed air, are NOW READY to MAKE CONTRACTS for the CONSTRUCTION and USE of their MACHINES.

The results of twelve months' experience in the working of these machines, by the West Ardsley Company, have proved most satisfactory, their use being found to CHEAPEN the COST and IMPROVE the average SIZE of the COAL, to the MINE.
All communications to be made to Messrs, Firth, Donnisthorpe, and Bower, No. 8, Britannia-street, Leeds.

NOTICE.—The WEST ARDSLEY COMPANY, having reason to believe that their natents are being interest and their natents. to believe that their patents are being infringed upon, hereby give no-tice that they will TAKE LEGAL PROCEEDINGS AGAINST ALL PARTIES who may MAKE FOR SALE, or USE ANY MACHINERY in the construction of which any such INFRINGEMENT is MADE.

ANALYSES OF COAL, CANNEL, MINERAL OILS, and all OIL PRODUCING MINERALS are UNDERTAKEN by A. NORMAN TATE, F.A.S.L., &c.,
ANALYTICAL and CONSULTING CHEMIST, and CHEMICAL ENGINEER (Author of "Petroleum and its Products," &c.),
MOLD, NORTH WALES.

Plans and estimates for oil and chemical works prepared, and their erection superintended.

Assays of metals and their ores carefully conducted.

CHARLES DAVEY AND CO

THE HOT-AIR ENGINE COMPANY (LIMITED).

Incorporated under the Companies Act, 1862.

Capital £15,000, in 15,000 shares of £10 each. Deposit, £1 per share on application, and £1 per share on altoment.

Subsequent calls not to exceed £2 per share, nor to be made at intervals of less than three months.

Should no allotment be made, the £1 paid on application will be returned.

SECRETARY—James D. Churchill.

TEMPORARY OFFICES,—63, KING WILLIAM STREET, LONDON, E.C.

TEMPORARY OFFICES,—63, KING WILLIAM STREET, LONDON, E.C.

This company is formed for the purpose of purchasing the patents of the hotair engine, which is so extensively used in the United States, and for introducing and manufacturing it for general use in Great Britain and Ireland.

The advantages of this invention over the steam-engine are—
1.—There is no boiler: therefore no water required, and space is thereby saved—the power being obtained by the expansion of compressed air, and the gases disengaged by combustion.

2.—The utter impossibility of explosion.

2.—As the fire is enclosed in an air-tight furnace, there is no danger of ignition or explosion, in proof of which insurance companies do not charge increased premiums where these engines are used.

4.—Great economy in the working expenses. No engineer is required. A one-horse power nominal, worked in London, with coals at 30s. per ton, costs, including oil, &c., &s, per week of 60 working hours, or id, per horse power per hour.

5.—No preparation is necessary for its erection, as it stands on its own frame. A one-horse power per quires space of about 5 feet square; a common stove pipe, leading into a chimney, is all the draught arrangement required. It is self-contained, simple in construction, and not liable to get out of repair.

Experience shows that the demand for small-power engines is enormous, both at home and in the colonies; for instance, for printing, turning, sawing, pumping, hoisting, ventilators, sewing machinery, &c.

These engines can be used where it would be impossible, dangerous, or unpleasant to have a steam-engine.

The company have made an arrangement to acquire the sole and exclusive right of making, selling, and using hot-air engines constructed under various patents, and all future improvements the vendors may make.

Applications for shares, prospectuses, and any further information, to be made to the Secretary, at the offices, where an order may be obtained to see the machine in full work.

TESTIMONIALS.

12, Red Lion-coert, Flee

Applications for some some an order language to the Scenetary, at the offices, where an order language chine in full work.

12. Red Lion-court. Fleet-street. London, Aug. 16, 1866.—GENTLEMEN: In reply to your enquiries regarding the 1-horse power hot-air engine, I beg to state that I have had it in constant work for the last nine months driving two lathes, one planing machine, a small circular saw, &c. The cost of working, including oil, &c., amounts to less than \$s, per week, requiring little or no attention, and is perfectly free from all danger—in fact, a boy of 14 years of age, after a few days instruction, is quite competent to take entire charge of it. It affords me great pleasure to state that I am perfectly satisfied with it in every respect.

THOMAS JOHN LAWRENCE.

THOMAS JOHN LAWRENCE.

7. Red Cross-square, Jewin-street, London, August 17, 1866. — Dean Sirs: In reply to your's, respecting the hot-air engine, I can say that it has worked to my entire satisfaction, driving two double-crown printing machines at a cost of 2s, per week, including the cos. of oil. You may with confidence recommend it to anyone, as nothing can equal it for safety and economy; and they only require to be known to be appreciated. A boy fourteen years old attends to mine. Any further information that you may require I shall be happy to give you.

W. G. BUNTING

N.B.—There are one-horse power engines.—J. D. C., Sec.

COLQUITE SILVER-LEAD MINE (LIMITED).
Capital £5000, in fully paid shares of £1 each.

10s. to be paid on application, and 10s. on allotment, without further Hability.

First issue 2000 shares, of which 1000 only are now available.

The plan of making a small issue of fully paid-up shares, and subsequently increasing their number if additional capital is required, secures for mining and other speculate investments a maximum of advantage, with the least possible risk—first, by admitting adventurers to a very large share on easy terms, in the event of early success; and, secondly, by securing to all absolute immunity from further calls, and this without the necessity of sacrificing existing interest. These advantages are not secured by the Cost-book System, nor by the arrangements usually adopted.

DIRECTORS—To be elected at the first meeting of shareholders, within £41. sually adopted.

ORS—To be elected at the first meeting of shareholders, within fifteen

OFFICES,-53, MOORGATE STREET, LONDON.

Communications hereon may be addressed to the lessee, Colquite Mine, Calling ton, or to the undersigned, to whom application for shares should be made on or before Friday, Nov. 30.

WILLIAM COLMAN, Secretary pro tem.

THE BRITTANY SILVER-LEAD MINING COMPANY

(LIMITED). 4, ALLHALLOWS CHAMBERS, 49, LOMBARD STREET, LONDON, E.C. The concession of mining rights over thirty square miles of territory has just een granted to this company by the Emperor of France; one of the mines pened upon is now in an advanced state, and silver-lead ore of first-class quaty is being shipped to Swansea, for which prices varying from £17 10s. 6d. to 4d. 5a, per top, heave been realised.

shipped to Swansea, for which prices varying from £17 108, 60, to ton have been realised. tors are willing to receive applications for a limited number of the shares, which are of £1 each, payable either in full, or by instal-

ments of 5s. each.
Further particulars relating to the concession and the mines, also specimens
of the ores, may be obtained on application to Mr. N. M. MAXWELL, at the offices
of the company. Reference is invited to the weekly reports from the mine,
which duly appear in the Mining Journal.

ESSES. CARNE AND CARTHEW,
PRITISH AND FOREIGN SHAREDEALERS, FINANCIAL AGENTS,
EGOTIATORS FOR THE SALE OF MINES AND MINING PROPERTY OF
EVERY DESCRIPTION,
ST. JUST AND WEST COENWALL MINING OFFICES, 12, NORTH
BUILDINGS, BROAD STREET TERMINUS, E.C.

Mesers, CARNI and CARTHEW, after business relations for twenty years, have entered into partnership for the general conduct of mining business, which they believe their long experience and knowledge will enable them to transact with satisfaction to their clients.

As Sharedealers they will buy and sell on the usual charges for commission, and having no bias of their own, will ever be ready to advise their correspondents as to the best and securess investment in the market. Those of their friends who, in the early part of the year followed their counsel have benefitted, in many instances, 200 or even 300 per cent., and this, by judiclous operations, will always be the case, which the unadvised outsider, who listens to the senseless gossip which emanates from irresponsible "mining men," are sure to lose their money.

gossip which emanates from irresponsible "mining men," are sure to lose their money.

As Financial Agents, CARNE and CARTHEW propose to enter on an entirely new field of business. It has long been patent to all who are bona fids adventurers in the great inding industry of the country that the Limited Liability Act, whatever may be its value or its wonthlessness for other enterprises, is utterly unfit for mining purposes; for just at the moment that the property is being brought into a paying state the power to make calls becomes exhausted, and the borrowing powers which the company have, under their Deed of Settlement, can seldom or never be satisfactorily exercised. To supply this great defect in the working of companies so constituted, and thus rescue many valuable concerns from rule, and their shareholders from serious loss, is an important object in the programme of their business.

The Transfer and Sale of Mines, as at present managed, when offered in London (and there is no other place where a market can be found) is most wretchedly conducted, as every practical man knows who glances at a catalogue. The salesman is ignorant of what he is dealing with, and he cannot convey to his clients a clear perception of the value of the estate, it being to him a sealed book. This important defect Carne and Carnew, from their great experience, feel they can well supply, and will be happy to negotiate all such sales or transfers, either by private negotiation or public auction.

Carne and Carnew have adopted the name of the St. Just and West Cornwall Mining Offices, because it has been the scene of their great success, they having paid dividends from more mines in those districts are, from their being aimost a terra incognity to the London world, less dealt in than the better supported districts of Caradon and Tavistock, although, as they believe, far more deserting public support.

London Agencles for respectable constituted companies conducted.

don Agencies for respectable constituted companies conducted.
MINES INSPECTED BY EDUCATED AGENTS OF GREAT EXPERIENCE.

THOMAS MOL MINING OFFICES, MANCHESTER.
OLYNEUX AND CO., MINE AGENTS AND SHAREBROKERS. Reliable information can be obtained as to purchas

of shares, of the Ellen United Copper and Zinc Mining Company (Limited), and frove Silver-Lead Mining Company (Limited). THOMAS MOLYNEUX, 5.28, Princess-street, Manchester.

MANCHESTER, AND WEST END OF LONDON.

IR. W. HANNAM, MINING, SLATE QUARRYING,
INSURANCE, AND GENERAL SHAREBROKER.
ROYAL INSURANCE BUILDINGS, KING STREET MANCHESTER; and
31, REGENT STREET, LONDON, S.W.
INSTANTANEOUS COMMUNICATION with the STOCK and MINING
EXCHANGES, avoiding the delay and annoyance of visiting the City to ascertain prices.

A Monthly Investment Circular on application.

A Monthly Investment Circular on application.

A MINE S.—Capitalists who seek safe and information. The market prices for the day are for the most part governed by the immediate supply and demand, and the operations of speculators, without reference to the bona fide merits of the property. Railways depend upon the traffic, expenditure, and capital accounts, the probabilities of alliance or competition with neighbouring companies, the creation of new shares, the state of the Money Market as affecting the renewal of debentures, and other considerations founded on data to which those only can have access who give special attention to the subject. Mines afford a wider range of profit than any other public securities. The best are free from debt, have large reserves, and pay dividends bi-monthly varying from £10 to £15 per cent. per annum. Instances frequently occur of young mines rising in value 400 or 500 per cent. But this class of security, more than any other, should be purchased only upon the most reliable information. The undersigned devote special attention to Railways and Mines, afford every information to capitalists, and effect purchases and sales upon the best possible terms. Thirty years' experience is mining pursuits justifies us is afford every information to the uninitiated in selecting mines for investment.

MESSIS. TREDINNICK AND CO.,

ST. MICHAEL'S HOUSE, CORNHILL, LONDON.

In the Court of the Vice-Warden of the Stannaries

IN the MATTER of the COMPANIES ACT, 1862, and of the NORTH CHIVERTON MINING COMPANY.—TO BE SOLD, under the direction of the Registrar of the said Court, BY PUBLIC AUCTION, on Tuesday, the 4th day of December next, at Eleven o'clock in the forencon, at NORTH CHIVERTON MINE, in the parish of Perranzabulce, within the said Stannaries, in One Lot, the MINE SETT or GRANT of the said company, and the undermentioned MINING MACHINERY, MATERIALS, and EFFEUTS, viz.: 50 in. cylinder PUMPING ENGINE, with BOILER 11 tons, and a variety of other materials and effects in general use in mines, which may be inspected at any time prior to the sale, on application to Mr. Samuel Osborne, in charge thereof. HODGE, HOCKIN, AND MARRACK, Truro (Agents for Tuffnell Southgate, 7, King's Bench Walk, Temple, London). Dated Registrar's Office, Truro, November 14, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the TRESKERBY MINING COMPANY.—By an order made by his Honour the Vice-Warden of the Stannaries in the above matter, dated the 19th day of Nov. inst., on the petition of Harry Tilly, of Falmouth, within the said Stannaries, a shareholder of the said company, it was ordered that the TRESKERBY MINING COMPANY should be WOUND-UP by the Court, under the provi-Cons of the Companies Act, 1882.
HODGE, HOCKIN, AND MARRACK, Solicitors, Truro.
Dated Truro, November 19, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the OLD WHEAL NEPTUNE MINING COMPANY (LIMITED).—By an order made by his Honour the Vice-Warden of the Stannaries in the above matter, dated the 10th day of November inst, on the application of William John Rawlings, the petitioner in the above matter, it was ordered that the OLD WHEAL NEPTUNE MINING COMPANY (LIMITED) should be WOUND-UP by this Court, under the provisions of the Companies Act, 1862.

HODGE, HOCKIN, AND MARRACK, Truro (Solicitors for the Petitioner).

Dated Registrar's Office, Truro, 21st November, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

TN the MATTER of the COMPANIES ACT, 1862, and of the SOUTH ALFRED CONSOLS MINING COMPANY.—TO BE SOLD, under the direction of the Registrar of the said Court, BY PUBLIC AUCTION, on Tuesday, the 18th day of December next, at Eleven o'clock in the forencon, at the SOUTH ALFRED CONSOLS MINE, in the parishes of Philiack and Gwinear, within the said Stanuaries, either together or in lots, the MINE SETTS or GRANTS of the said company, and the undermentioned MINING MACHINERY, MATERIALS, and OTHER EFFECTS, viz.—45 in. cylinder ENGINE, with BOILER 10 tons, 8 ft. stroke in cylinder, and 7 ft. stroke in shaft; and a variety of materials and effects in general use in mines, which may be inspected at any time on application to Mr. WM. Moss, in charge thereof.

HODGE, HOCKIN, AND MARRACK, Solicitors, Truro.

HODGE, HOCKIN, AND MARRACK, Solicitors, Truro. Dated Truro, November 21st, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the WENDRON CONSOLS MINING COMPANY.—TO BE SOLD, under the direction of the Registrar of the said Court, BY PUBLIC AUCTION, on Tuesday, the 11th day of December next, at Eleven o'clock in the forenoon, at the WENDRON CONSOLS MINE, in the parish of Wendron, within the said Stannarles, either together or in lots, the MINE SETT or GRANT of the said company, and the undermentioned MINING MACHINERY and MATERIALS, namely:—

namiely:—
ONE STEAM ENGINE, 70 in. cylinder, with first piece of rod and woodwork
of engine-house; THREE BOILERS 10 tons each: and a variety of other materials and effects in general use in mines, of which further particulars may be
had on application to Mr. JOHNS, the officer of the Court in possession.
Dated Registrar's Office, Truro, November 21st, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the IN the MATTER of the COMPANIES ACT, 1862, and of the WEST WHEAL VOR MINING COMPANY.—Notice is hereby given, that a PETITION for the WINDING-UP of the ABOVE-NAMED COMPANY by the Court was, on the 19th day of November inst., presented to the Vice-Warden of the Stannaries, by William John Rawlings, a creditor and also a contributory of the said company, and that the said petition is directed to be heard before the Vice-Warden, at No. 18, Thurlos-equare, Brompton, in the county of Middlesex, on Monday, the 3d day of December next, at Twelve o'clock at noon. Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear days' notice to the petitioner, his solicitors, or their agents, of his intention to do so, such notice to be forthwith forwarded to P. P. Smith, Esq., secretary of the Vice-Warden, Truro.

Truro.

Every such contributory or creditor is entitled to a copy of the petition and affidavit verifying the same, from the petitioner, his solicitors, or their agents, within 24 hours after requiring the same, on payment of the regulated charge per folio.

Affidavits intended to be used at the hearing, in opposition to the petition, but he field at the Registers' Office. There on a before the State have of Nor.

ollo. davits intended to be used at the hearing, in opposition to the petition, be filed at the Registrar's Office, Truro, on or before the 30th day of Nov. and notice thereof must, at the same time, be given to the petitioner, his

Inst., and notice thereof must, at the same time, or given to the pentitioner, or their agents.

HODGE, HOCKIN, AND MARRACK, Truro, Cornwall

(Solicitors for the Petitioner).

GREGORY, ROWCLIFFES, AND RAWLE, 1, Bedford-row, London
(Agents of the said Solicitors).

Dated Truro, November 22, 1866.

Dated this 15th day of November, 1866.

FINAL SALE AT WHEAL HARRIETT MINE, ON WEDNESDAY, NOVEMBER 28, 1866, AT TWO O'CLOCK.

M. R. BURGESS, Land and Machinery Valuer, is instructed to SELL, BY PUBLIC AUCTION, at the above mine all the crucked to

M. R. BURGESS, Land and Machinery Valuer, is instructed to SELL, BY PUBLIC AUCTION, at the above mine, all the undermentioned valuable MINE MACHINERY and MATERIALS, viz:—24 or 42 in. combined ENGINE, 10-ton BOILER, and fittings.
18 in. DRAWING ENGINE, 6 to T-ton BOILER, and fittings.
250 fms. of very best CAPSTAN CHAIN, can be warranted, having been made specially different sizes by Messrs. Harvey and Co., Hayle.
1 SHEARS, 48 ft. legs, 12 in. square, very good oak caps, 2 6-ft. shleves.
Balance-bob. brass, all complete, without the woodwork; two cisterns; first-class capstan, English oak axie, 12 in. span beams, stay pieces to shears and legs; iron air-machine; vice; anvil.

IN YARD.—Bell wire, screw stocks, three barrows, fire-brick, bucket prongs, bucket forms, smitch's trough, smitch' cuphord, old steel, old brass, pew and old iron riddies, new and old shovels, mallets, picks, set of double and treble blocks, 4 whoze ropes, chests, 2 sampling iron bucking hammers, iron shafts for whim, spanners, and all the account-bouse furniture. Excellent miners' dial, complete. Mr. Burgess invites the attention at this final sale.

Refreshments at One, saie at Two o'clock. nents at Or

M. R. BURGESS (Barncoose, Redruth), Land and Machinery Valuer, has FOR SALE, all sizes, PITWORK, CHAIN, and MINE MACHINERY; FOUR 60-in, PUMPING ENGINES; ONE 50 in., TWO 40 in., TWO 24 in., THREE 20 in., TWO 18 in. DRAWING WHIMS; STEAM CAPSTAN; 22 in., 24 in., and 36 in. ROTARY ENGINES; 6 stamps' axles; calciner; sundry tin mine materials; several tons of old brass, &c. Dated November 21, 1866.

BY MESSRS. NEWBOLD AND OLIVER.
DERBYSHIRE.—OAKERTHORPE COAL AND IRONWORKS, near DERBY, with the LEASES of MINERALS from HIS GRACE THE DUKE OF DEVONSHIRE and RICHARD C. STRELLEY, Esq.

DEVONSHIRE and RICHARD C. STRELLEY, Esq.

MESSRS. NEWBOLD AND OLIVER are honoured by instructions from the Liquidator of the Oakerthorpe Iron and Coal Company (Limited) to SELL, BY AUCTION, at the Midland Hotel, Derby, on Thorsday, 29th November, 1868, at Four o'clock, the above important COLLIERIES and IRONWORKS, with the PLANT, &c.

The Works are situate close to the Wingfield Station on the Midland Railway, fourteen miles north of Derby. Trains from the North stop at this station—8:52 a.M., 11:16 a.M., and 4:16 P.M.; from the South, 6:44 a.M., 7:89 a.M., 11:7 a.M., and 2'2 P.M.

Plans, &c., can be inspected at the office of the works; and any information may be obtained from the Liquidator, Joinv Hedley, Derby; or Messrs. Wood-House and Jeffecok, Mining Englueers, Derby. Printel particulars may be obtained from the above gentlemen; the Auctioneers, Derby; or Messrs. MILES, GREGORY, and BOUSKILL, Solicitors, Lelecster.

An order to inspect the works may be obtained of the Liquidator, or of Messrs. Woodhouse and Jeffcook.

TO BE SOLD, cheap, a PORTABLE ENGINE of 14 horse power, double cylinder, of first-class construction, workmanship, and material. Winding gear to order. SECOND-HAND PORTABLES FOR SALE.—Apply to Messre. Barrows and Carmichael, engineers, Barbury, Oxon.

WEST WHEAL VOR, BREAGE, CORNWALL.

WEST WHEAL VOR, BREAGE, CORNWALL.

M. R. CHARLES THOMAS WILL SELL, BY PUBLIC AUCTION, on Wednesday, the 28th of November, 1866, at One o'clock P.M., at the London Tavera, Bishopsgate-street, London, the MINE SETTS or GRANTS of the WEST WHEAL VOR MINING COMPANY, together with all the MACHINERY and MATERIALS belonging to the said company, in One Lot, subject to such conditions as will be produced at the time of said. For further particulars, apply to Mr. J. H. MURCHISON, S, Austinfriars, London; to the Agent, on the mine; or to the Auctioneer, 3, Great St. Helen's, London, E.C.

N.B.—This sale has been postponed from the 22d inst., owing to an omission in the first advertisement.

NORTHAMPTONSHIRE, within five miles of the town of Northampton, the COGENHOE ESTATE, comprising several FARMS, WATER CORN MILL, SUNDRY COTTAGES, forming nearly the whole of the viliage; PLOTS of BUILDING and ACCOMMODATION LAND, the whole containing together 445 Acres; the MANOR, with extensive rights of Fishing; also the important MINERALS under the Estate, of HONSTONE, POTTERY CLAY, SILVER and GLASS SAND,—the whole producing a present rental of £1300 per annum.

MINERALS under the Estate, of IRONSTONE, FOTTERY CLAY, SILVEE and GLASS SAND,—the whole producing a present rental of £1300 per annum.

MESSRS. FAREBROTHER, CLARK, AND CO. are instructed to SELL, BY AUCTION, at the George Hotel, Northampton, on Saturday, December the 8th, at One for Two o'clock precisely, in Twenty Lots, the COGENHOE ESTATE, freehold and tithe free, situate about midway between Northampton and Wellingborough, intersected in part by the Feterborough branch of the London and North-Western Rallway, and only a quarter of a mile from the Billing station, comprising several FARMS, WATER CORN MILL, the greater portion of the VILLAGE BUILDING and ACCOMMODATION LAND, the whole containing about 445 acres, and producing a rental of £1800 per annum, independent of the undeveloped mineral wealth comprised therein. Also, the MANOR or LORDSHIP of COGENHOE, with valuable rights of fishing. To capitalists this estate offers a wide field of enterprise, and assures a certain prospect of sound and unlimited trade. Inexhaustible beds of the finest clays, on a hill with white sand and loam making first-class red and white bricks, tiles, drainage pipes, and terra cotta, giving a trade which will command the London market, to which there is ready access by rallway and canal at remunerative rates: 10 feet of iron ore extends over more than 200 acres. This ore is now in great request in the iron-producing districts, with all of which this estate is in direct communication. By utilising the white clay and sand above the ore, the latter would be got free of expense. There are large deposits of limestone and gravel ballast. There is an excellent plant on the estate, and a line of ralls are already laid down, so that operations, either in the brick or iron trade, may be commenced at once.

There is a right of way over several level crossings on the Northampton and Peterboro' line of rallway to the navigable river Nine, Holes will be sunk to show the minerals, and also intending purchasers will have permission to make such f

M UNDICS FOR SALE.—FOR SALE, at WHEAL FALMOUTH AND SPERRIES MINE, BALDHU, near TRURO, from SIX HUNDRED to SEVEN HUNDRED TONS MONTHLY of GOOD SULPHURIC MUNDIC, containing about 45 per cent. of sulphur. Also, about ONE HUNDRED AND FIFTY TONS of COPPERY MUNDIC. Parties desirous of contracting for the purchase of the same may have samples by applying to Capt. KITTO, the agent on the mine; or to Mr. John Pascoe, purser, Truro.—Dated November 23, 1866.

LEAD MINE SHARES FOR SALE.

LEAD MINE SHARES FOR SALE.

TO BE SOLD, BY PRIVATE CONTRACT, SEVEN (15ths)
SHARES of DOWPOT SYKE MINE, in the manor of Alston, in the county of CUMBERLAND; and TWO (100ths) SHARES of GREEUHWITH MINE, also near Alston. The Dowpot Syke Mine is situated about 1½ mile from the town of Alston aforesaid, close to the main road leading to Alston, and in a rich part of the district for lead ore. The set Joins Hudgill Burn, which was the richest mine in Alston Moor, and lies between Holyfield and Guttergill Mines, both of which have been very productive, and paid good dividends. During the last twelve months, after paying all the expenses of working the Dowpot Skye Mine, a good balance has been left in favour of the company. Further particulars may be known on application to Mr. PEart, mining agent, Alston, Cumberland; or to Mr. FORSTER, solicitor, Brampton, Cumberland.

SALE OF VALUABLE COLLIERIES,

TO BE SOLD, BY PRIVATE CONTRACT, all that VALUABLE PROPERTY known as BIRCHGROVE GRAIGOLA COLLIERIES, consisting of about FIVE HUNDRED ACRES of the BEST STEAM COAL (on the Government list), unworked, and situate about five miles from the port of Swansas.

the Government list), unworked, and situate about five miles from the port of Swansea.

The above collieries comprise two walled shafts, fitted on the newest and most improved principle, with FOUR powerful STEAM-ENGINES (two large, nearly new), with horizontal cylinders; and houses, buildings, workshops (complete), with residences, dwelling-houses, &c. All the eligible extensive contracts and business made over to the purchaser.

This property is intersected by the Swansea Vale Rallway for upwards of a mile, and the two collieries communicate therewith by convenient sidings, and are in close proximity to the Great Western Rallway.

Also the LEASE of wharf for shipping at Swansea, including all interest, wagons, trams, &c., of every description necessary, and in perfect order.

Also, the LEASE of about four hundred acres of surface land, in good farming order, with homesteads, stock, &c.

Apply to W. M. HACON, Esq., 31, Fenchurch-street, London; or to Mr. Evan Daniel, mining engineer and estate agent, Christiana street, Swansea.

COAL IN NOVA SCOTIA.

A COAL MINE, situate in CAPE BRETON, NOVA SCOTIA, comprehending an area of one square mile, lying on the sea shore, within sight of the track of all vessels passing through the Straits of Canso, to and from the Guif and Biver St. Lawrence. This mining privilege consists of several seams of bituminous coal of excellent quality, overlying each other at various depths, the principal one being 7 feet in thickness, cropping out on the side of a deep ravine 61 feet above water level, with a strike of south 85° west, dipping northerly at an angle of 10°, or 1 to 5½. Twenty-seven acres, containing northerly at an angle of 10°, or 1 to 5½. Twenty-seven acres, containing 250,000 tons of coal, lie above natural drainage, requiring no holsting machinery whatever. Five and a baif millions of tons constitute the complement of this single seam. Three other seams, one of 3 feet, one of 3½ feet, and one about 5 feet, co-gails, with like strikes and dips. A safe and natural harbour, containing 70 acres of water (superficial), varying from 26 feet to 0 in depth, and partly within the area, may at small expense be rendered navigable. The proprietors of this valuable property are prepared to TREAT FOI: THE SALE, or to ACCEPT PROPOSALS FOR FORMING A JOINT-STOCK COMPANY, to work the mine under a special Limited Liability Act of the Legislature of Nova Scotla, already obtained. A very small amount of outlay, from the peculiar position of the property, will render it immediately reproductive. It is among the mines nearest the United States, where the demand for bituminous coal is almost unlimited.

For pians of the locality, a report of a practical mining engineer, a chemical analysis of the coal, terms, and all other particulars, apply to H. BLANCHARD, Esq., M.P.P., 3 and 4, Bedford-row, Halifax, N.S.; or to the Hon. J. M'CULLY, Alexandra Hotel, Kuightsbridge, London. COAL MINE, situate in CAPE BRETON, NOVA SCOTIA,

Alexandra Hotel, Ruightsbridge, London.

TO CAPITALISTS, PUBLIC COMPANIES, AND OTHERS.—
Particulars of a VALUABLE and EXTENSIVE SLATE AND COPPER PROPERTY FOR IMMEDIATE DISPOSAL BY PRIVATE CONTRACT, situate in NORTH WALES, within about four miles of shipping port, to which place a railway, running for nearly two miles parallel to and within a few hundred yards of the estate, will enable the produce to beconveyed at an almost nominal cost. There are upon the property four or five very EXTENSIVE SLATE VEINS and a VALUABLE COPPER MINE.

Three quarries have been opened, and the works in either case brought nearly to completion, several cargoes of excellent slates having been sold, as also a large quantity of very rich copper ore. There are about 800 yards of levels, 100 yards of shafts, about one mile of fron rails laid down, foreman's house, magazine, &c.

The lease is for a term of NINETY-NINE YEARS, WITHOUT ANY RENT OR ROYALTY WHATEVER. These unusually favourable terms very much enhance the value of the property. There are reports and ophinons of seven or eight of the most enuluent authorities as well as other ophinons as to the capabilities and nature of the property. In addition to the three quarries alluded to another vein of slate has been opened upon and tested. The property offers unusual facilities for sub-letting in four or five divisions, exclusive of the copper, the quarries being far apart, and the existing works as advanced in either case, either division being sufficiently large for one company or firm.

The property possesses great natural advantages. Many thousands of pounds have been expended on the works, which have been carried out in a thoroughly substantial manner, the heavy expenditure of capital and inevitable loss of time attending the opening of all quarries having been already incurred. The terms of purchase will be made easy; one-third will be required in cash, half of which must be paid at once, and half at a date to be deeded upon. Two-thirds of the whole purchase money may remain on m

of the whole purchase money may remain on mortgage of the lease for four of five years if dealred.

Application in first instance to be made to "M. S. A.," Deacon's Library, Leadenhall-street, London.

VALUABLE COAL MINES, TO BE LET, IN NORTH STAFFORDSHIRE.

TO BE LET, from Christmas next, the MINES of COAL lying under portions of the LINLEY WOOD ESTATE, in the parish of AUDLEY, containing about ONE HUNDRED AND TWENTY ACRES.

These mines include the Seven and Eight-foot Banbury, two of the best house-

These mines include the Seven and Eight-foot Banbury, two of the best housefire coals in North Staffordshire, which are extensively worked in the adjoining
lands, as well as the Ten-foot, Little Row, Two Row, the Bulhurst, and other
valuable seams, all at moderate depths.

The intended branch of the North Staffordshire Railway, from Silverdale to
Alsager (which will be opened in June, 1868), will run through the estate, and
afford dir. ct communication with Silverdale and the various towns of the Potteries, as well as with Crewe, and all parts of Cheshire and Shropshire.

For further particulars, apply to Mr. S. BATE, Estate Agent, Springfields, near
Newcastle-under-Lyme; or to Messrs, KEARY and Son, Solicitors, Stoke-uponTrent.—Nov. 21, 1866.

RED LION HOTEL, TRURO.—An OLD-ESTABLISHED FIRST-CLASS FAMILY, COMMERCIAL, and POSTING-HOUSE. Very superior accommodation to Families, Tourists, Mining, and Commercial Gentlemen. Ladies' and Gentlemen's Coffee and Private Sitting Rooms. Omnibus to meet svery train.

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MANUFACTURERS of STEAM ENGINES of EVERY DESCRIPTION, made as the BEST and NEWEST PRINCIPLES. We beg more especially to call the uncated by most of our leading engineers. PUMP WORK CASTINGS of the steam of the public to the MANUFACTURE of our BOILERS, which have steam of the public to the MANUFACTURE of our BOILERS, which have steam of the public to the MANUFACTURE of our BOILERS, which have steam of the public to the MANUFACTURE of our BOILERS, which have steam of the property of the public to the MANUFACTURE of the BEST HON. and STEAM OF THE STATE OF T

surre required.
Messrs. NICHOLLS, MATHEWS, and Co. have always a LARGE STOCK of
SECOND-HAND MINE MATERIALS in stock, and at moderate prices.

PATENT FLEXIBLE TUBING,
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PICKFORD'S PATENT SAFETY-FUSE OBTAINED the PRIZE MEDALS at the ROYAL EXHIBITION of 1851, at the INTER-NATIONAL EXHIBITION of 1862, in London, and at the IMPERIAL EX-POSITION held in Paris, in 1865.



BICK FOR D, SMITH, AND CO., of TUCKINGMILL, CORNWALL, MANUFACTURERS of PATENT SAFETY-FUSE, having been informed that the name of their firm has been attached to fuse not of their manufacture, beg to call the attention of the trade and public to the following announcement:

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PRENTICE'S BLASTING GUN-COTTON PRODUCES NO SMOKE, and having been further REDUCED in PRICE is now by far the CHEAPEST as well as the SAFEST material which can be used in any description of mining or quarrying work.

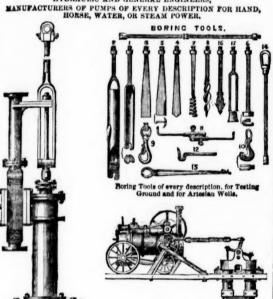
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UN-COTTON has been constantly used with great success in the tunnel of the Aberdeen Water-Works, lately opened by success in the tunnel of the A Most Gracious Majesty the Queen.

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Portable Engines with Double Barrel, or other Pumps, on Hire or Purchase.

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CAST STEEL for PUNCHES, TAPS, and DIES, TURNING TOOLS, CHISELS, &c.
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Where the largest stock of steel, files, tools, &c., may be selected from.



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TO MINE MANAGERS, AGENTS, AND SURVEYORS.

GENTLEMEN,—I most respectfully beg to inform you that my Manufactory for Mine unit of the property of the short of the property of the proper

All work guaranteed as first-class for quality and accuracy, and, if found Miterwise, forfeited. Soliciting your kind favours,

I remain, Gentlemen, yours obediently,

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A. JEFFERY.

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A. A. T. E. R. 'S. C. H. A. I. N. P. U. M. P.—

This patent pump is the MOST EFFICIENT in existence for LIFTING
ANY QUANTITY of WATER from ANY DEPTH. One lifting from a depth
of 170 ft. may be seen at work daily, on application to the
SOLE LICENSEES.

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STREET, LONDON, E.U.,
STREET, LONDON, E.U.,
Communications to Mr. Bastier, the patentee, to be sent to the same address.

45ENT FOLE THE COUNTIES OF NORTHUMBERLAND AND DURHAM, YORKSHIRE,
DERBYSHIRE, AND NORTH SAFFUNDSHIRE,
MM. THOMAS GREENER, MINING OFFICE, NORTHGATE,
DARLINGTON.

AGENTS FOR SCOTLAND.

MESSRS. P. and W. MACLELLAN, 127 and 129, IRONGATE, GLASGOW.

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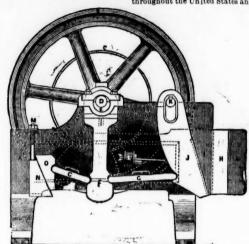
TO MINERS, IRONMASTERS, MANUFACTURING CHEMISTS, BAILWAY COMPANIES, EMERY AND FLINT GRINDERS, MCADAM BOAD MAKERS, &C., &C.

BLAKE'S PATENT STONE BREAKER

OR ORE CRUSHING MACHINE,

FOR REDUCING TO SMALL FRAGMENTS ROCKS, ORES, AND MINERALS OF EVERY KIND.

It is rapidly making its way to all parts of the globe, being now in profitable use in California, Washoe, Lake Superior, Australia, Cuba, Chill, Brazil, and throughout the United States and England. Read extracts of testimonials:—



The Parys Mines Company, Parys Mines, near Bangor, June 6.—We have had one of your stone breakers in use during the last twelve months, and Captain Moreom reports most favourably as to its capabilities of crushing the materials to the required size, and its great economy in doing away with manual labour.

For the Parys Mining Company,

JAMES WILLIAMS.

H. R. Marsden. Eso.

For the Parys Mining Company, JAMES WILLIAMS.

R. Marsden, Esq.

Reton Emery Works, Manchester.—We have used Blake's patent stone breaker made by you, for the last 12 months, crushing emery, &c., and it has given every satisfaction. Some time after starting the machine a piece of the moveable law, about 20 lbs. weight, chilled cast-iron, broke off, and was crushed in the jaws of the machine to the size fixed for crushing the emery.

H. R. Marsden, Esq.

Thos. Goldsworthy & Sons.

Alkall Works, near Wednesbury.—I at first thought the outlay too much for so simple an article, but now think it money well spent. WILLIAM HUNT.

Welsh Gold Mining Company, Dolgelly,—The stone breaker does its work admirably, crushing the hardest stones and quartz. WM. DANIEL.

Our 15 by 7 in. machine has broken 4 tons of hard whinstone in 20 minutes, for fine road metal, free from dust.

Messrs. ORD and MADDISON, Stone and Lime Merchants, Darlington.

Kirkless Hall, near Wigan,—Each of my machines breaks from 100 to 120 tons limestone or ore per day (10 hours), at a saving of 4d. per ton. Ovoca, Ireland.—My crusher does its work most satisfactorily. It will break 10 tons of the hardest copper ore stone per hour. WM. G. ROBERTS.

General Frémont's Mines, California.—The 15 by 7 in. machine effects a saving of the labour of about 30 men, or \$75 per day. The high estimation in which we hold your invention is shown by the fact that Mr. Park has just ordered a third machine for this estate.

SILAS WILLIAMS.

For circulars and testimonials, apply to-

H. R. MARSDEN, SOHO FOUNDRY,

MEADOW LANE, LEEDS,

ONLY MAKER IN THE UNITED KINGDOM.

GIFFARD'S PATENT INJECTOR COMPLETELY SUPERSEDED BY

DONKEY PATENT ТНЕ NEW STEAM PUMP. [SPECIFICATION.]



N.B.—Sizes and capacities similar to Giffard's Injector.

Terms: Nett Cash on Delivery in London.

Giffard's injector will not force water over 120° Fahr., while these pumps possess the great advantage of being able to pump bolling water. Giffard's injector will not draw water over 6t. deep, while these pumps draw water 15t., and by using one size larger than required for forcing the quantity will draw 30 ft. deep. These pumps begin to work at 15 lbs. per square inch; to work at a lower pressure the next larger size must be used. Sizes up to No. 10 kept in stock. Larger sizes, and special pumps for throwing water into tanks, or as fire-engines, can be made in a few days on application to the undersigned.

BROWN, WILSON, AND CO., 80, CANNON STREET, E.C.; AND VAUXHALL IRONWORKS, S.



CREASE'S NEW AND IMPROVED PATENT BORING
MACHINE.—In consequence of the various and IMPORTANT IMPROVEMENTS that an experience of several years has enabled the inventor
to introduce into these machines, he can with the most perfect confidence recommend them for their increased DURABILITY, SIMPLICITY, ECONOMY,
and SPEED to be attained by their adoption in DRIVING LEVELS or DRIFTS.
The inventor has made arrangements to supply them in any quantity, with
warrantry. Orders executed according to their date of priority.

Address, EDWARD S. CREASE, Tavistoch Devon.

Now ready price 5s. by post 5s. 4d.

THE IRON TRADE.—The "WEEKLY REPORT ON
THE IRON TRADE.—The "WEEKLY REPORT ON THE IRON

Now ready, price 5s., by post 5s. 4d.,

THE MINES OF CORNWALL AND DEVON:
STATISTICS AND OBSERVATIONS, for 1865.

By THOMAS SPARGO, Mining Engineer, Stock and Sharebroker,
Gresham House, Old Broad-street, London, E.C.

Now ready, price 2s.,

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THE IRON TRADE CIRCULAR (RYLANDS).—The "IRON TRADE CIRCULAR" is eminently the Business Journal of the Mining Districts. Its information is authentic, unbiassed, and complete: comprising, not only the business news of the South Staffordshire District, but generally of the entire Mining Districts of the Kingdom. Annual subscription, £2 2s. (or 10s. 6d. quarterly in advance). Advertisements and orders to be addressed to Mr. George Ryland, Union-passage, Birmingham.

[From the Quarterly Trade Circular, Pittsburgh, United States.]

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THE WREXHAM ADVERTISER, DENBIGHSHIRE, FLINT-SHIRE, SHRDPSHIRE, CHESHIRE, AND NORTH WALES REGISTER (Established 1848).—The town of Wrexham forms the centre of a large and important agricultural and mining district, which, from the increasing attention of capitalists, aided by the advantages afforded by new railways, is rapidly increasing in population, and bids fair to rival Wolverhampton in commercial importance. The Advertiser, partaking of the general prosperity, has largely increased its weekly circulation, 1000 more copies being now issued of each impression than at the close of 1864, and it now has a circulation more than double that of any other paper published in Denbighshire and Flintshire, and is the only medium by which advertisers can fully and effectually communicate with the public generally in those counties. Price 2d., stamped 3d. Published by Bayley and Bradley, Advertiser office, Wrexham.

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It contains complete, authentic, and unbiassed information relative to the various
branches of the metallic trades in all parts of the country.
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THE STOCKTON AND HARTLEPOOL MERCURY AND MIDDLESBOROUGH NEWS (published at Hartlepool) is eminently the organ of the Coal, Iron, and Iron Shipbuilding Trades in the extensive Mining and Martitime District of South Durham and Cleveland, with which it has been closely identified since its origin. The "Mercury" was for years the only newspaper published in South Durham and Cleveland, and is yet the only one published more than once a week. Advertisements to be forwarded to the publisher, Mr. JOHN H. BELL, Southgate, Hartlepool.

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Russell-square, London, W.C.

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THE MINING SHARE LIST.

BRITISH DIVIDEND M	INES.
Shares. Mines. Paid. Last Pr. Busing	ess. Total divs. Per share. Last paid.
1500 Alderley Edge, c, Cheshire* 10 0 0	2 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0
	8 7 8 0 10 0Aug. 1866
	** 400 10 0: 0 0 0: Misy, 1000
	9 per cent Sept. 1866
1000 Bronfloyd, I, Cardigan 12 0 0	8 7 0 0 6 0 Aug. 1866
6400 Cashwell, I, Cumberland 2 10 0	0 1 6 0 1 6 Aug. 1866 3
916 Cargoll, s-l, Newlyn 15 5 7	13 15 0 1 0 0 Feb. 1866
867 Cwm Erfin, I, Cardiganshire* 7 10 0 20	20 18 0 1 0 0Oct. 1866
128 Cwmystwith, l, Cardiganshire 60 0 0	367 10 0 5 0 0 Oct. 1866 1
280 Derwent Mines, s-l, Durham 300 0 0	167 0 0 5 0 0Oct. 1866
1024 Devon Gt. Consols, c, Tavistockt 1 0 0 450 425 43	
358 Dolcoath, c, t, Camborne 128 17 6 300 32	
	It b o o a d. bully, 1000
	0 10 6 0 1 6 Jan. 1866
ASOC ESSE WHEST LOVEIL, C. WELLION S SU. 19 10	
2800 Foxdale, l, Isle of Man* 25 0 0	69 0 0 0 10 0. Oct. 1866 6
5000 Frank Mills, I, Christow 3 18 6	3 5 6 0 5 0. Feb. 1866
15000 Great Laxey, l, Isle of Man* 4 0 0 19171/4 18	4 5 5 0 0 10 0. Sept. 1866
6908 Great Wheal Vor. t. c. Helstont 40 0 0 17 1812 17	10 10 0 0 10 0. Sept. 1866 16
1024 Herodsfoot, I, near Liskeardt 8 10 0 31 30 32	39 0 0 1 10 0Oct. 1866
6000 Hingston Down, c t 5 10 6	0 10 0 0 5 0. April, 1866
400 Lishuwaa I Cawdiganshina Walso 10 15 0	0 10 0 0 b 0 April, 1866 [
	** 400 10 01. 0 0 01. Dept. 1000
	3 9 0 0 2 0Oct. 1866
1800 Minera Mining Co. / Wrenham. 1 0 0	
1800 Minera Mining Co. I, Wrexham* 25 0 0	205 8 0 3 0 0 Nov. 1866
40000 Mwyndy Iron Ore*† 3 5 0	0 6 6 0 2 6 Mar. 1866
600 Pant-y-Glien, sl 20 0 0	10 per cent May, 1866
200 Parys Mines, c, Anglesey 50 0 0	157 10 0 5 0 0. Jan. 1866 6
1120 Providence, t, Uny Lelantt 10 6 7 25 21 23	81 7 6 0 10 0 Aug. 1866
512 South Caradon, c, St. Cleer 1 5 0 330	534 10 0 5 0 0. Sept. 1866 12
6000 South Darren, l	0 5 6 0 2 6 June, 1866 6
6000 Tincroft, c, t, Pool, Illogant 9 0 0 9 914 10	
3000 W. Chiverton, I, Perranzabulcet 60 57 59	15 7 6 2 0 0. Nov. 1866 1
400 West Wheal Seton, c, Cambornet. 47 10 0 13714 120 125	481 14 0 2 10 0 Oct. 1866 5
512 Wheal Basset, c, Illogant 5 2 6 80 65 70	. 461 14 0. 2 10 0. Oct. 1866 5
1024 Wheal Friendship c Devon 20 0 0	
4295 Wheal Kitty t St Agnes	
	2 19 0 0 1 6 May, 1866 12
	1 0 0 0 10 0 Feb. 1866
296 Wheal Seton, t, c, Camborne 58 10 0 145 145 150	
1040 Wheal Trelawny, s-l, Liskeardt 5 17 0 8	54 0 6 0 \$ 0 June, 1866 25
17000 Wicklow, c, i, Wicklow 2 10 0 23	45 15 0 0 18 0 Oct. 1866 3
	1
RRITISH MINES WITH DIVIDENDS	THE ADDRESS OF

BRITISH MINES WITH DIVIDENDS IN ABEYANCE.

1200 Bryn Gwyn, <i>l</i> , Mold* 2880 Clifford Amalgamated, <i>c</i> , Gwen 1055 Craddock Moor, <i>c</i> , St. Cleer 6000 East Carn Brea, <i>c</i> , Redruth	31 10 0 11 5 0 3 15 0	234 234 23	**	3 3 6 0 13 6 Aug. 1865 35 6 0 0 10 0 June, 1865 7 12 0 0 4 0 June, 1865 0 5 0 0 5 0 June, 1865
20000 Mining Co. of Ireland, c, l, cl	7 0 0			19 18 11. 0 16 1 July, 1865
6000 New Birch Tor and Vitifer Cons. \$				0 13 0 0 2 0Oct. 1865
6000 West Basset, c, Illogan	1 10 0			26 14 0 0 5 0 July, 1865
1024 Wheal Exmouth, I, Christow				0 2 6Oct. 1865
1024 Wheal Mary Ann, !, Menheniott	8 00	12 10 12		59 17 6 0 10 0Mar. 1865

FOREIGN DIVIDEND MINES.

5000 Cape Copper Mining +	7 0 0 9%.	. 8% 9%	2 12 6 0 10 0April,1866
21500 East Indian Coal, Calcutta	10 0 0		
15000 Fortuna, l. Spain*+	2 0 0 214.		1 5 4 0 2 0 Oct. 1866
25000 Gen. Mining Assoc., Nova Scotiat	00 00		
10000 Gonnesa, L. [5000 £5 pd., 5000 £4]	20 0 0		22 0 0 1 0 0June, 1866
***** Goddesa, t. [3000 £3 pd., 5000 £4]		• ••	71/2 per cent. per annum.
5000 Linares, t. Spain +	8 0 0		11 6 4 0 5 0 Jan. 1865
89275 New Wildberg, 1	2 0 0		0 12 0 0 2 0 Aug. 1865
10000 Panulcillo, cot	3 0 0 3%	2% 3%	10 per cent Yearly.
90000 Pontgibaud, s-l, Francet	20 0 0		0 10 0 0 10 0 Dec 100r
27500 Port Phillip, g. Clunest	1 00 1	1 11/	0 15 6 0 1 0July, 1866
10000 Scottish Australian Mining Co. t.		A 12% **	
Sicon C. V. I Sicon Signature String Co. 1.	1 0 0 . 3/		0 1 0 0 0 0 16-11 1000
	1 0 0 4		0 1 0 0 0 9 May, 1866
40000 St. John del Rey, Brazil*+	15 0 0 52	51 59 ::	0 1 0 0 0 9 May, 1866 68 15 0 4 0 0 June, 1866
40000 Victoria (London) [25000 £1 pd., 2	15 0 0 52 5000 12s, 6d, pd.)	51 59 ::	0 1 0 0 0 9May, 1866 68 15 0 4 0 0June, 1866 0 9 0 0 1 0Jan, 1866
40000 Victoria (London) [25000 £1 pd., 2 10000 West Canada Mining Company*	15 0 0 52 5000 12s, 6d, pd.)	51 59 ::	0 1 0 0 0 9May, 1866 68 15 0 4 0 0June, 1866 0 9 0 0 1 0Jan. 1866

FOREIGN MINES WITH DIVIDENDS IN ABEYANCE.

10000	Alten and Quænangen United, co	4		0					4	5	0	0	15	0 Nov. 1	1853
	Australian, c, South Australiat	7	7	6	_									0. June, 1	
2464	Burra Burra, c. South Australia.	5	0	0	-									0. Dec. 1	
12000	Cobre Copper Company, c, Cubat.	40		0											
30000	conte copper company, c, cubit.				13	3	2 234		101	0	0	1	0	0Jan. 1	865
10000	Copiapo Mining Company, Chilit			0	-				6	18	0	0	10	0 Nov. 1	862
100000	Don Pedro No. del Rey, Brazil**	0	14	0	-		128, 148,		0	0	9	0	0	9. Dec. 1	1863
70000	English and Australian, c	2	10	0	1		700 10							0Aug. 1	
49000	Kapunda Mining Co., Australiat							••							
69000	Kapunua aining co., Austranay	- 1		0	_				0	12	0	0	1	0June, 1	1884
10000	Lusitanian (Portugal) +	3	0	0	-									0June, 1	
103815	Mariquita and New Granadat	1	0	0	-				0					6 July, 1	
43174	United Mexican, s, Mexico	0.0						••	-		0	v	- 0	o oury, 1	1000
4011.0	Cuited Mexican, s, Mexico	28		0	2		1% 2		- 2	19	0	0	- 5	0 Sept. 1	1864
10000	Vancouver, clet	5	0	0	-									0. Nov. 1	
45000	Vndanamutana 4 G A 44						*** ***								
-	Yudanamutana, c, S. A. *		U	0	1		11/4 11/4		U	5	0	0	- 5	0 Aug. 1	1863
														-	

NON-DIVIDEND FOREIGN MINES.

Shares		Paid.	Last Pr.	Rus. don	e. Last Call.
35000	Alamillos, I. Spain*f		1%	o WOM	Fully pd.
100000	Anglo-Brazilian, g*+	0 9 0		74. 94	May, 1866
40000	Brittany Silver-Lead Mines, France* [15750 18s. pd.]			14. 04.	may, 1000
25000	Capula, s, Mexico*+		13/4	1 11/	Ana 1000
30000	Chontales, g. s. Nicaragua*	3 00	. 8		Aug. 1866
10000	Copiapo Smelting, Chili*	10 0 0		70	Oct. 1866
200	Copper Miners' Co. of South Australia 150 £100 pd.,	150 €70	nd.1		Nov. 1866
80000	East del Rey, g. Brazil*†	2 15 0			.June, 1866
15000	El Chico Silver Mining and Reduction Company	4 10 0			Jan. 1868
8000	English and Canadian Mining Company	5 00			Fully pd.
#0000	Frontino and Bolivia, g, New Granada*†	1 10 6	. 16		Aug. 1866
80000	Great Northern, c. South Australia **	1 11 6			Sept. 1862
10000	Great Barrier Land. Mining, &c., New Zealand	\$ 00			Fully pd.
12500	Nerbudda Coal and Iron 66500 £4 pd.1				Aug. 1865
\$0000	Nova Scotia Land and Gold*	1 15 0			Sept. 1865
15000	Otea, c. New Zealand* '5000 tully paid'	1 10 0			April.1866
€000	Peel River Land and Mineral*	00 0 0			Stock.
20000	Pestarena, got	2 00		1% 2	Aug. 1866
23000	Quebrada, c. Venezuela**	10 0 0	134	1 134	Fully pd.
10178	Rhenish Consolidated, l [6000 £5 pd., 4178 £2 10s, pd.]	-		- 7	May, 1866
20000	Rossa Grande, g. Brazil*	0 76			April.1864
15000	San Pedro del Morte, s. Mexico.	8 00			Jan. 1866
10000	San Roque, I. Spain	5 00			Fully pd.
1000	Schlossberg Colliery*	10 0 0	. 10		uny par
20000	Val Antigoria, get	0 15 0 .			July, 1866
6000	Val Nassam s. c. 100	5 10 0 .	. 134		April.1866
8000	valgodemard Mining Company	20 00 .			Fully pd.
90000	Vallanzasca, G. Italy**	0 15 0 .			July, 1866
45000	Victor Emanuel. c. Italy	1 00 .			Fully pd.
20000	Washoe, g, [10000 £5 pd., 10000 £4 pd.]	-	. 236		pai
₩0000	Worthing, c. South Australia **	1 00.			Fully pd.
7500	Yorke Peninsula, South Australia	1 00.		36 36	Fully pd.

BANKS AND FINANCIAL COMPANIES.

Shares	. Banks.	1	Paid.	L	ast P	T	Bus	. done	
40000	Alliance*†				20			1954	
40000	Australian Mort. Land and Financet	5	0 0		514		41%	8	
20000	Australasiat	40	0.0		65		61		
10000	Bank of Egypt+	25	0.0				29		
10000	Bank of New Zealandt	10	0 0					1844	
25000	Bank of Otago*+	10	0 0		6				
25000	Bank of Queensland**	95	0.0		10				
\$0000	Bank of Victoria, Australia+	95	0 0		29	••	97	39	• •
80000	Brazilian and Portuguese* +	10			914			9	**
8915	Canada Companyt	20	10 0					80	**
\$6000	Canadian Loan and Investment*	0	10 0		00			114	
40000	Unart, Bank India, Aust. & Chinas	en.	0 0			**		1614	
20000	Char. Merc. India, Lond. & Chinat	95	0 0				23		
\$0000	City†	10			16				
20000			0.0	**				36	0.0
40000	Company of African Members 44	44	0 0			**	214		
			0 0		-		432		
			0 0						
							2%	3	0.0
			0 0						
			0.0				41/	371/	
					1716				
					15		19	141/4	
			0 0	**	376		7.5	70	
			0 0				22		
					31/6		- 8	316	
			0 0		21/2			-	
\$0000	London Chartd. Bank of Australiat	10	0 0		7			5	
			0 0		22%	0.00	11/2	221/6	
40000	London Financial Association *	30	0 0		63		63		0.0
			0 0				834	9%	
			0 0		43		41	43	
10000	London and South-Western*†	10	0 0		-				
			0 0					18	
			0 0				93	94	
17156	Metropolitan and Provincial	11	10 0		-				
20000	Mineral Rights Association*	30	0 0				31/8	101/2	
			0 0						
1,0000	National of Australia† National of Liverpool*†	. 4	0 0					6	**
40000	Nationals	10	0 0				10		
27500	National	0.0	0 0				68		
40000	New South Walest	20	0 0					45	
80000	Union of Australiat	25	0 0					50	
-	Union of Londont	14	0 0		-		44	45	
									-

			ī
PROG	RESSIVE	MINTER	

	PROGRESSIVE MINES.	Shares. Mines. Paid. Last Pr. Bus. done. Last 12000 Redmoor, c, t, Callington 1 9 6
_	Shares	6000 Reinnie Laxey, l.I. of Man* 4 0 0
aid. 1866	500 Billins, t, Flint	3973 Rosewarne Consols, c 5 2 6 Feb. 1 6000 Rosewall Hill and Ransom 3 10 6 4 10s. 12sAug. 1 3848 Rosewarne United, c, t 4 0 4 75 July 1
1866 1866 1866	5000 Bottle Hill, t, Plympton	3848 Rosewarne United, c, t 4 0 4
1866 1866 1866	30000 Caldbeck Fells, I, Cumber. 1 5 0 Sept. 1866	12000 Sortridge Cons., c, Tavist., 1 12 0 512 South Basset, c, Gwennap. 22 0 8 8 1024 South Callington, s-l 5 12 6 236236 24 Fight
1866 1866	11000 CapeCornwall, t, c* [8000 £210s, pd., 3000 10s, pd.]Oct. 1866 2000 Caradon & Phœnix Cons.* 0 12 0 —April.1865	3000 So. Chiverton, s, l, Perran. 5 15 0 June 1
1866 1866	914 Caradon Cons., c. St. Cleer 31 3 6. —	6138 So. Condiffrow, t. c. Camb. 3-11 0 36 14 36 - May, 18 2288 South Crenver, c. Crowan. 12 9 0
1866 1866	5000 Carnarvonshire, ?* 4 0 0 4/2 4/3 Fully pl. 4005 Cardigan Cons. **[1000 £5 pd., 3005 £4 5 s. pd.] 3 April, 186 600 Cardiganshire, ?* 17 10 0. 20 Sept. 186 Sept. 186 20000 Caryafort [3200 £2½ pd., 16800 £1½ pd.] Mar. 1865 Mar. 1865 66000 Castell Carn Dochau, g** 0 8 6. —	5000 So, Exmouth, 4 Pristow. 2 17 0. —
1866 1866 1866		
1866 1866	2500 Central Minera, # 3 12 6. No. 1866 16000 Central Snathbeach I 1 0 - Fully pd. 3000 Chiverton, I, Perranzabu. 9 2 6. 7½ 8 8½ Nov. 1866 3000 Chiverton Moor I, Perranz. 5 18 6. 4½ 4¾ 5 Nov. 1866 16000 Coolarrra & Bond*[5300 & I pd., 10700 168. pd.] Feb. 1865	496 So. Wh. Frances, c, Illog.† 18 18 9. 20 19 21 June 19
1866 1866	16000 Coolartra & Bond*[5300 £1 pd., 10700 168. pd.] Feb. 1865 256 Condurrow, c, t, Camborne 76 10 0 Fully pd.	
866 866	256 Condurrow, c, t, Camborne 76 10 0 . —	794 Spearne Cons., t, St. Just 6 19 6
866 866 866	6500 Cornish Clay and Tin* 1 0 0— Fully pd. 6000 Cornwall Great Consols 1 8 0— May, 1866 861 Crane, c, Camborne 32 4 6— July, 1866 12000 Crelake, c, Tavistock 3 8 0— July, 1866	940 St. Ives Consols, t, St. Ives. 9 15 0 —
866 866	12000 Crelake, c, Tavistock	920 Stray Park. c. t. Cambornet 40 13 0
866 866	4000 Devon Wheal Frances, c 1 4 6. 178 Sept. 1866 1024 Devon Wheal Lopes, c 17 0 0	3500 Tin Hill, t, St. Austell 1 8 0 — Jan. 18 6000 Tolearne, c, Camborne 3 1 6 — July, 18 572 Trelyon Consols, t, St. Ives. 15 10 0 — 501 Tresavean and Trethurrup 15 10 0 5½ Nov. 18
866 866 866	12800 Drake Walls, t, Calstock 2 1 0 ½ ½ ½ 658 Ding Dong, t, Gulval 48 14 6 — Sept. 1865 20000 Dolfrwynog, g* 0 0 15 0 — June, 1864 25000 Dundalk, Ireland, l* 0 12 6 — April, 1866	4440 Trevenen & Tremenheere 7 11 0 —
866	1000 Eaglebrook /* 17 19 0	6400 Tyne Head, t, c* 0 17 0
865	6000 E. Bottle Hill, t, Plympton 0 6 6 —	1024 West Caradon ct
865 865	4096 East Brookwood, Holne 2 8 8 2July, 1866 2000 East Buller, c, Gwennap 2 0 0	1000 West Clogau, g, Merioneth. 1 0 0 —
865 865 865 865	2048 E. Falmouth, s-l, Kenwyn. 5 0 6 — April, 1864 6000 E. Grenville, c, Camborne. 3 3 6 2½ 2½ Nov. 1866 4000 E. Gunnislake & S. Bed. c. 9 0 6 — Aug. 1866	2850 W. Condurrow, t. c. Cam 12 11 3. —
865 865	6145 East Jane, s-l, Cardinham. 2 17 6 —	
	1000 East Moor, s. 0 5 0. — Aug. 1866 3936 E. Providence, t. Uny Lel. 4 19 9. — Nov. 1865 5000 E. Tresavean, c. Gwennap. 0 10 0. — May, 1865 6000 East Snaefell, I. I. of Man* 2 0 0. — Dec. 1864	6000 Westminster, (*
866	6000 East Shaerell, (, 1, or Man. 2 0 0	512 West Tolgus, c, Redruth 51 10 0 25 20 25 Oct. 18 512 W. Wh. Frances, t, Illogan104 15 0 5 6 7 Aug. 18 5000 W. Wh. Kitty, t, St. Agnes. 2 13 6 34. 48. 68 Sept. 18
866	1190 E. Wh. Agar, c, St. Cleer., 12 17 0. — Jan. 1863 4000 E. Wh. Russell, Tavistock; 11 14 0. 314, 276 316, Oct. 1864 15000 Ellen Unit., c, St. Agnes 1 0 0. — Nov. 1866	8000 Wharfedale Mining Co.* 0 5 0 —
y. 865	6000 Fortescue Consols, c 0 12 6	6000 Wheal Agar, c. Illogan . 6 8 0 . 1½ . 1½ 1½ . July, 18 1000 Wheal Baset and Grylls, t 7 18 6
866 866 866	10000 Fursdon, c* [5000 £1 10s.]	6000 Wheal Cartis, c, trowan 18 0 4
866	4000 Gawton, c, Tavistock 3 5 6 3% Feb. 1866 6000 Gen. Min. Co. for Ireland, c 4 0 0	4096 Wh. Edward, c, Calstock 9 1 6 —
353	40000 Glasgow Caradon (* 130000 £1 pd., 10000 10, pd.) Sept. 1866 6144 Gonamena, c, St. Cleer 5 14 0 1. 6000 Gothic, s-l, Cardigan 2 10 0	4000 Wh. Emma, c. Buckfastlel. 3 9 0
365	4096 Great Caradon, c, St. Ives. 8 9 0. 1/4. Aug. 1866 3000 Gt. East Lovell, f, Helston 1 15 0. —	512 Wheal Jane, s-l, Kea 10 10 0
662 863 864	5000 Great North Downs, c 5 18 0 314	728 Wheal Margery, t, c
884 865 859	6000 Great South Chiverton, s. 1 9 6. —	80 Wheal Owles, t, St. Just 70 0 0
664 663	3313 Great Wheal Baddern, t 7 17 6	1024 Wheat Polimear, 6 8 13 9 Sept. 18
. 1	119 Great Work, f. Germoe100 0 0	1500 Wheal Sarah, f, Lanivet . 0 13 8 . —
66	5000 Hayan I Cardigan 4 15 0	1200 Wheal Trevenna, t, e
66 66	6000 Llogan t, c	
		MISCELLANEOUS. 60000 Anglo-American Telegr. *† 10 0 0 13%14% 15
	6000 Levant United, St. Just 0 10 0	20000 Anglo-Mexican Mint† 10 0 0 161/6 16 17 600000 Atlantic Telegraph*† 100 0 0 43 20000 Australian Agricultural† 20 10 0 17 19
d. 65 65		25000 Bolckow, Vaughan++ 17 10 0
		6000 British American Landt. 44 0 0 25 20 25 254 Brit. & Irish Mag. Teleg. *100 0 0 92 88 92 50000 British Shipowners* 7 10 0 81/4 91/4 25000 Ceylon Company*† 10 0 0 81/4 91/4 27000 ChinaStmship&Lab.Coalf 11 0 0 4/4 11/4 30000 City Discount** 2 0 0 11/6 2 20000 City London Real Prop. *† 6 10 0 41/4 34/4 41/4 41/4 41/4 41/4 41/4 41/4 41/4
66	ora Mane Minera, F	95000 City of Moscow Gaset 99 10 0
1. 2	6000 New Clifford, c, Gwennap* 2 0 0	20000 City Offices 1 15 0 0
56 1.	6400 Nether Hearth, I, Dufton 1 1 0—	10000 Cred. Fonc. of Mauritius*† 10 0 0 616 416 516
1.	950 New Treleigh, c. Redruth. 4 8 0	60829 ditto preferencet,100 0 0. — 107 110
1.	4096 New Wheal Lovell, t 1 9 0 — Aug. 1866 400 New Wh. Seton, c, Cambn. 53 15 0 40 30 35 Sept. 1866	80000 Ebbw Vale Iron Co. * 23 0 0 11/2
	6000 North Devon, s-1* 0 16 0 —July, 1866	779975 Electric Telegraph 7
1 1	5000 N. Hallenbeagle [8000 £1 pd., 8000 8s. 6d. pd.]July, 1865	25000 Fairbaira Engineering**. 5 0 0 . 4½ . 3½ 4½ . 30000 Fore-street Warehouse*†. 12 0 0 . 13 . 12¾ 13 . 20000 General Stm. Navigation 14 0 0 . 27 . 25 27 .
20	2000 North Levant, t, c, St. Just 10 8 0 —	4000 HOllybush Col. and Coke* 5 0 0
١,	1400 North Pool, c, Illogan 4 8 6	20060 Im. Land Co. Mersaliles* 10 0 0 3½ 23
	5936 No. Treskerby, c, 8t. Agnes 1 9 0. 3/4. 2/8 3/8 April, 1866 5000 North Wheal Basset, c, tt. 5 0 0	50000 Indian Carrying*† 1 15 0 — 30009 Italian Land† 5 0 0 — 3 3½ 80060 Joint-Stock Discount*† . 10 0 0 0 — 20000 Land Securities *† 5 0 0 — 3 4
12	3144 N.Wh. Robert, Smp. Spiney 4 6 5	20090 Land Securities **
6	1000 Parand St. Blazev Cons. t.g 1 18 9 Sept. 1866	64500 London & Prov. Marine*† 2 0 0 2% 2 2%
1 3	Con Destate Wheel Von A a 2 15 0	12500 Mauritius Land, Cred., &c. *† 2 0 0 — ¾ 1¼
10	812 Penhallow Moor ad 9 10 0 Sept. 1867	25000 Millwall Freehold Landt. 17 10 0 5½ 6½ 40000 Millwall Ironworks 1 7 10 0
1	200 Pentre Lygan, l* 50 0 0 May, 1855 1772 Polberro, t, St. Agnes 15 0 0 Fully pd	30000 National Discount* 5 0 0
10	501 Prince Arthur Consols, i*. 2 0 0 Fully pd. 1800 Prince of Wales, f. Calstock 0 11 6. 27s 25s. 27s Nov. 186' 1800 Prosper Un. f. c, St. Hilary 8 14 0 July, 1868	20000 National Steam Naviga. * 30 0 0 15 17
	b, blende; cl , coal; c , copper; g , gold; l , lead; s , will	iver; sl., slate; s-l, silver-lead; t, tin; z, zinc.
	• Companies marked thus • have been incorporated with Limited Lia	bility; those marked † have been admitted on the Stock Exchange

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00	20000 Anglo-Merican Mints 10 00 1814 18 17	
64	20000 Anglo-Mexican Mint† 10 0 0 16 16 17 600000 Atlantic Telegraph • † 100 0 0 43	
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66	1002925Crystal Palacet	
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88	100000 Egyptian Com. & Tradg. *† 9 0 0 4 4 4	6
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14	100060 Hudson's Bayt 20 0 0 171/2163/4 17	
16	20060 Humber Ironworks*† 20 0 0 80060 Im. Land Co. Mersaillea*† 10 0 0 31/4 2 3	
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16	50000 Indian Carrying*† 1 15 0	
6	30099 Italian Landt 5 0 0 3 81/4	
6	80060 Joint-Stock Discount* 10 0 0	
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~	148525 London Gen. Omnibus *7 4 U 0 824 8 874	
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6	64500 London & Prov. Marine 2 0 0 21/2 2 21/2	
6	10000 Marine Investment** 6 5 0	
6	12500 Mauritlus Land, Cred., &c. *† 2 0 0 — 34 114 12000 Mediterranean Ex. Tel. *† 10 0 0 — 2 3	
6		
e	10000 Merchant Shipping*t 15 0 0 6 8	
6	25000 Millwall Freehold Landt. 17 10 0 51/2 61/2	
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0	20000 National Provin. Marine + 2 10 0	
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13		
6	15000 Royal Mail Steam*† 60 0 0 101	

. Our object being to make the Share List correct, we earnestly call upon those who have the power to aid us, by forwarding any alterations or correction which may, from time to time, come under their notice. To shareholders, as well as those officially connected with the mines, we appeal for information. Reports from mines—in fact, mining intelligence of every description, forwarded to our office, will meet with ready attention.

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